MICRO HiFi COMPONENT SYSTEM

# RXD-M31MD/ LS-M31(M)

# SERVICE MANUAL

(HM-381MD)

KENWOOD

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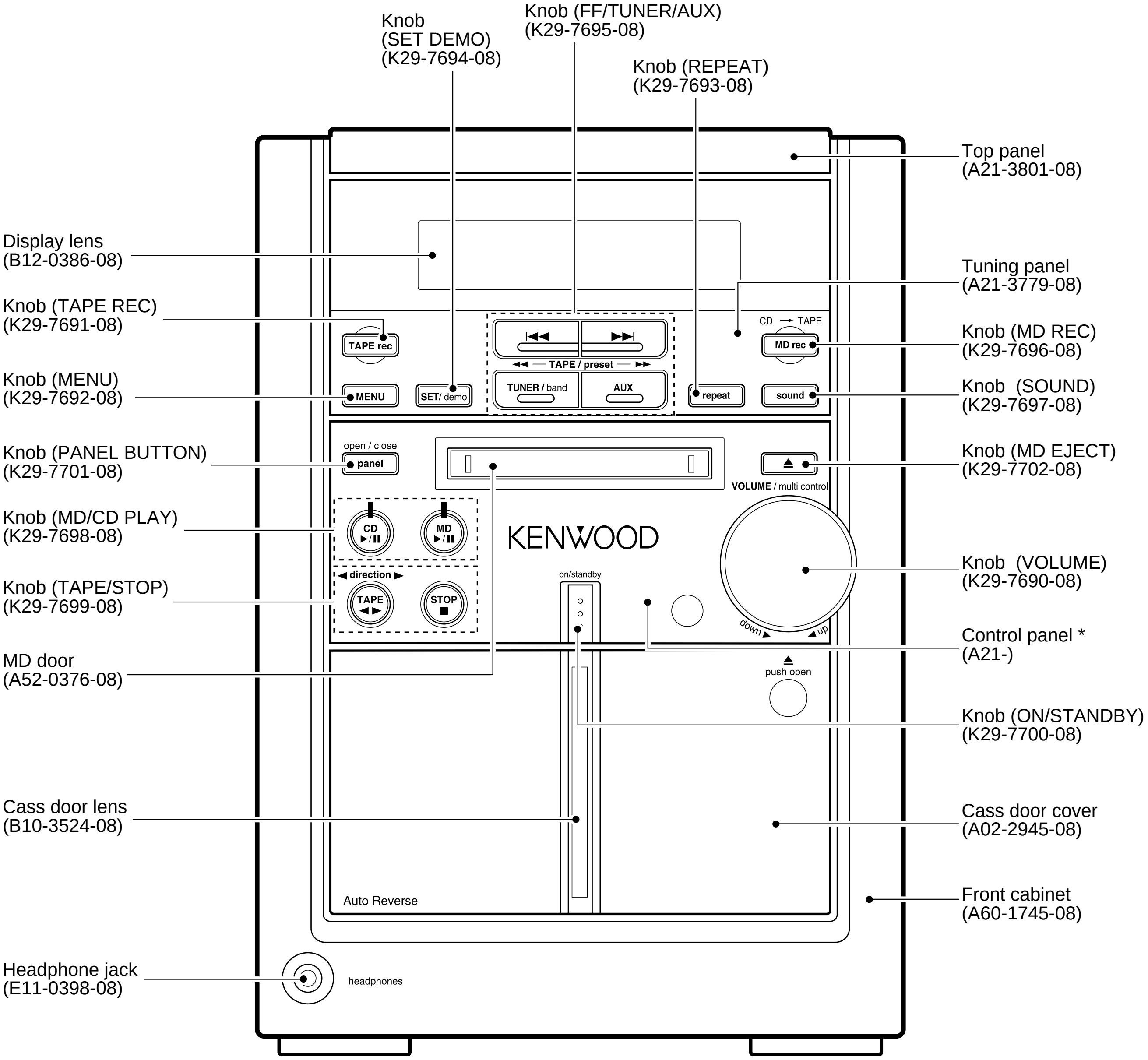
Knob (SET DEMO) (K29-7694-08)
Knob (FF/TUNER/AUX) (K29-7695-08)
Knob (REPEAT) (K29-7693-08)
Top panel (A21-3801-08)
Display lens (B12-0386-08)
Tuning panel (A21-3779-08)
Knob (TAPE REC) (K29-7691-08)
Knob (MD REC) (K29-7696-08)
Knob (MENU) (K29-7692-08)
Knob (SOUND) (K29-7697-08)
Knob (PANEL BUTTON) (K29-7701-08)
Knob (MD EJECT) (K29-7702-08)
Knob (MD/CD PLAY) (K29-7698-08)
Knob (VOLUME) (K29-7690-08)
Knob (TAPE/STOP) (K29-7699-08)
Control panel * (A21-)
MD door (A52-0376-08)
Knob (ON/STANDBY) (K29-7700-08)
Cass door lens (B10-3524-08)
Cass door cover (A02-2945-08)
Front cabinet (A60-1745-08)
Headphone jack (E11-0398-08)
TAPE rec
CD → TAPE
MD rec
TAPE / preset
TUNER / band
AUX
MENU
SET/ demo
repeat
sound
open / close
panel
VOLUME / multi control
CD ►/II
MD ►/II
KENWOOD
direction
TAPE
STOP
on/standby
down
up
push open
Auto Reverse
headphones

*** Refer to parts list on page 42.**

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated.**
**AVOID DIRECT EXPOSURE TO BEAM**

# CONTENTS / ACCESSORIES / CAUTIONS

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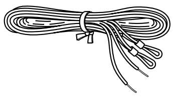
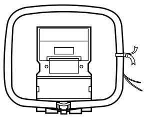
## Accessories

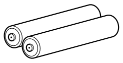
FM indoor antenna (1)
(T90-0801-05)



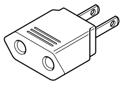
Loop antenna (1)
(T90-0846-08)



Batteries (R6/AA) (2)



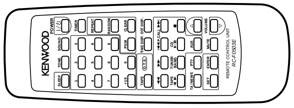
* AC plug adaptor (1)
(E03-0115-05)



* Use to adapt the plug on the power cord to the shape of the wall outlet.

(Accessory only for regions where use is necessary.)

Remote control unit (1)
(A70-1241-05) : RC-F503 (K,P,M)
(A70-1287-05) : RC-M0505E (E,T)



Battery cover (A09-1114-08)

## System configuration

| SYSTEM | MAIN UNIT | SPEAKER |
|---|---|---|
| HM-381MD | RXD-M31MD | ※LS-M31(M) |

※ Refer number for LS-M31(M), refer to parts list on page 52.

## Cautions

***Note related to transportation and movement***

Before transporting or moving this unit, carry out the following operations.

❶ Remove the CD or MD from the unit.
❷ Press the ►/❚❚ key of the MD.

MD NO DISC

❸ Press the ►/❚❚ key of the CD.
❹ Wait for some time and verify that the display becomes as shown in the figure.

CD NO DISC

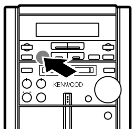
❺ Wait a few seconds and turn the unit OFF.

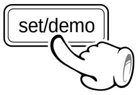
### *Operation to reset*

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

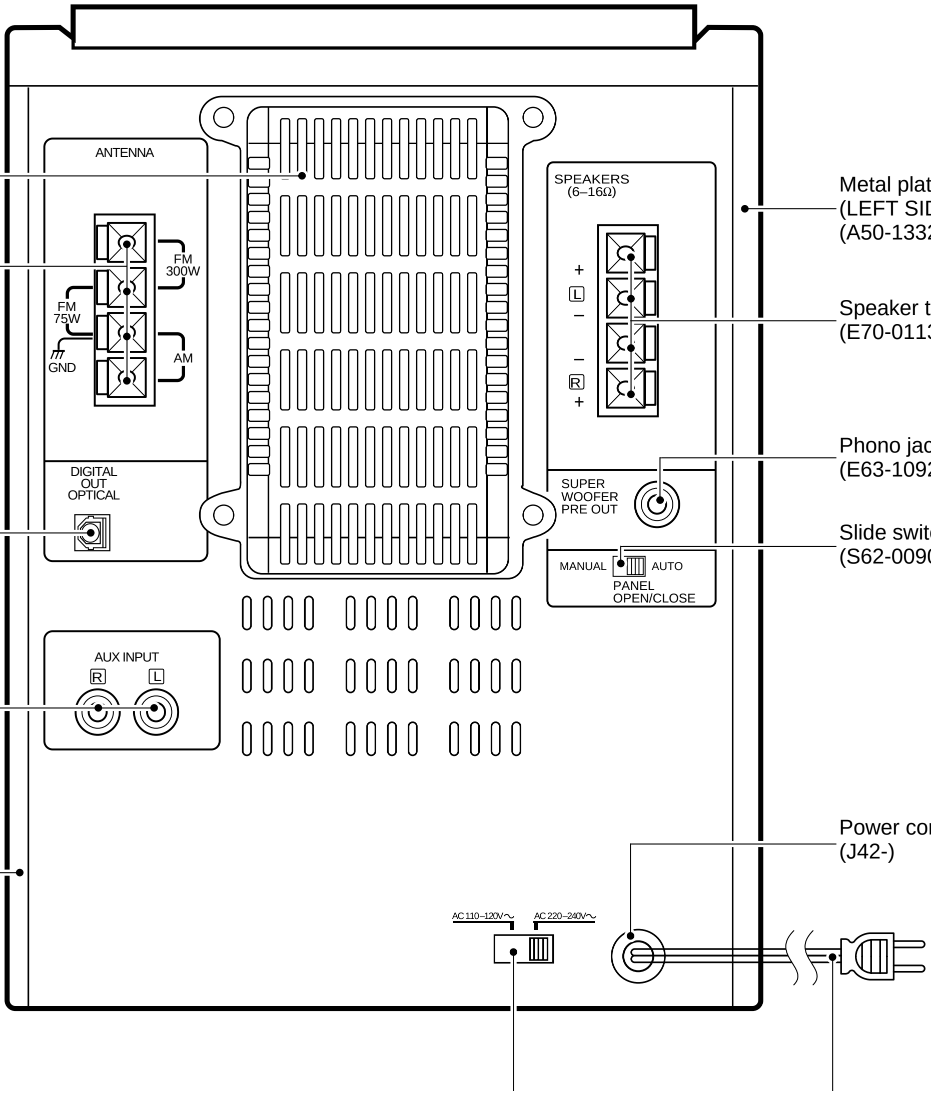
- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the “set/demo” key depressed, plug the power cord again.





# EXTERNAL VIEW



HS cover
(BLACK)
(F07-1685-18)

Lock terminal board *
(E70-)

Oscillating module*
(OPTICAL)
(W02-1114-05)

RCA jack
(E63-1091-08)

Metal plate
(RIGHT SIDE)
(A51-1337-08)

Metal plate
(LEFT SIDE)
(A50-1332-08)

Speaker terminal
(E70-0113-08)

Phono jack
(E63-1092-08)

Slide switch
(S62-0090-08)

Power cord bushing *
(J42-)

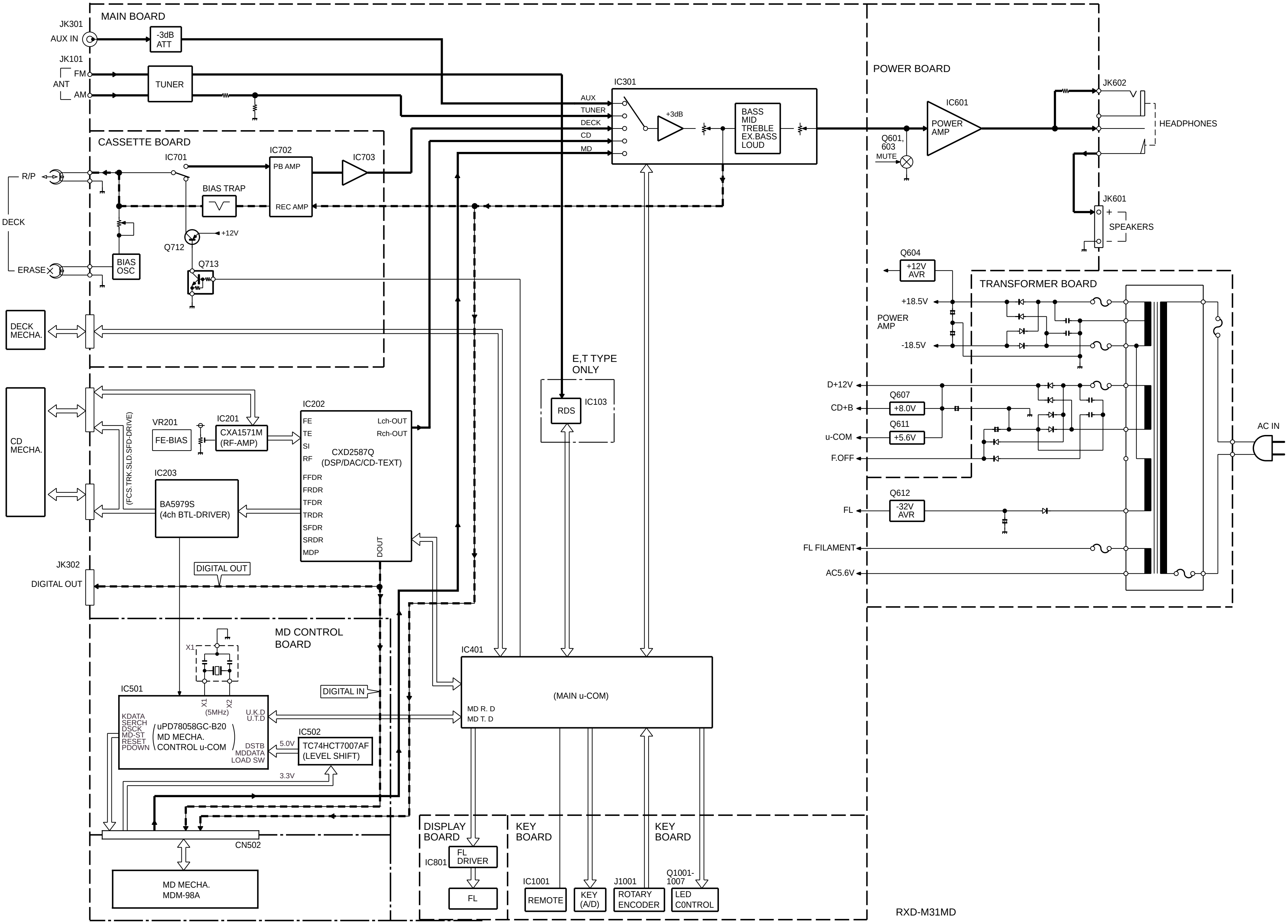
Slide switch *
(S62-0091-08)

AC power cord *
(E30-)

*** Refer to parts list on page 42.**

# RXD-M31MD

## BLOCK DIAGRAM



# 1. Initialization

## 1-1 Setting of initial conditions

While pressing the [SET] key, plug the AC power cord into an AC power outlet.

## 1-2 Initializing operation

- A microcomputer is initialized for start when the AC power is turned on while pressing the [SET] key. At that time, CD mechanism, MD mechanism and CASSETTE mechanism are also initialized.
- During the initial operation, the display shows "INITIALIZE" and normal indication, after that it goes off immediately.

## 1-3 Initial items and back up data

| | ITEMS | |
|---|---|---|
| AMP | ※POWER | OFF |
| | ※VOLUME | 15 |
| | ※BALANCE | CENTER |
| | LOUDNESS | OFF |
| | EX. BASS | ON |
| | ※INPUT SEL | TUNER |
| | ※AUX INPUT | 0 |
| | ※BASS | 0 |
| | ※TREBLE | 0 |
| TUNER | ※BAND | FM |
| | ※LAST f | LIMIT |
| | ※LAST Pch | — — |
| | ※AUTO/MONO | AUTO |
| | ※Pch | TEST f |
| CLOCK TIMER | CLOCK | AM 12 : 00 |
| | ※PROG ON | AM 12 : 00 |
| | ※PROG OFF | AM 12 : 00 |
| | ※PRO MODE | PLAY |
| | ※SOURCE | TUNER |
| | ※Pch | 1 |
| | ※EXE | OFF |
| | ※OTT | OFF |
| | SLEEP | OFF |
| CD | PLAY MODE | TRACK |
| | REPEAT | OFF |
| | RANDOM | OFF |
| | PLAY MODE | STOP |
| DECK | ※DIRECTION | FORWARD |
| | ※RVS MODE | ⊃ |
| | OPERATION MODE | STOP |

※back up data

## 1-4 Mechanism initialization

### 1-4-1 CD mechanism

- If a mechanism error occurs, "C" is indicated on the display.

### 1-4-2 MD mechanism

- The MD ON code is input within 4 seconds after turned the power port on, the MD initial code (D122H) is output.
  If the MD on code is not input, the error indication is displayed as "M" on the display.

### 1-4-3 CASSETTE mechanism

- If a mechanism error occurs, "X" is indicated on the display.

# 2. TUNER preset frequency

| ch | Destination | | |
|---|---|---|---|
| | K2 | E2 | E1/H |
| 1 | FM 97.50MHz | FM 97.50MHz | FM 97.50MHz |
| 2 | FM 108.00MHz | FM 108.00MHz | FM 108.00MHz |
| 3 | AM 630kHz | AM 630kHz | AM 630kHz |
| 4 | AM 1000kHz | AM 999kHz | AM 999kHz |
| 5 | AM 1440kHz | AM 1440kHz | AM 1440kHz |
| 6 | AM 1610kHz | AM 1602kHz | AM 1602kHz |
| 7 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 8 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 9 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 10 | FM 89.10MHz | FM 89.10MHz | FM 89.10MHz |
| 11 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 12 | FM 90.00MHz | FM 90.00MHz | FM 90.00MHz |
| 13 | FM 106.00MHz | FM 106.00MHz | FM 106.00MHz |
| 14 | AM 530kHz | AM 531kHz | AM 531kHz |
| 15 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 16 | FM 98.00MHz | FM 98.00MHz | FM 98.00MHz |
| 17 | FM 98.50MHz | FM 98.50MHz | FM 98.50MHz |
| 18 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 19 | AM 990kHz | AM 990kHz | AM 990kHz |
| 20 | FM 97.40MHz | FM 97.40MHz | FM 97.40MHz |
| 21 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 22 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 23 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 24 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 25 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 26 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 27 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 28 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 29 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 30 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 31 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 32 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 33 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 34 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 35 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 36 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 37 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 38 | FM 87.50MHz | FM 87.50MHz | FML 74.00MHz |
| 39 | FM 87.50MHz | FM 87.50MHz | FML 65.00MHz |
| 40 | FM 87.50MHz | FM 87.50MHz | FML 69.00MHz |

# 3. Destination list of TUNER

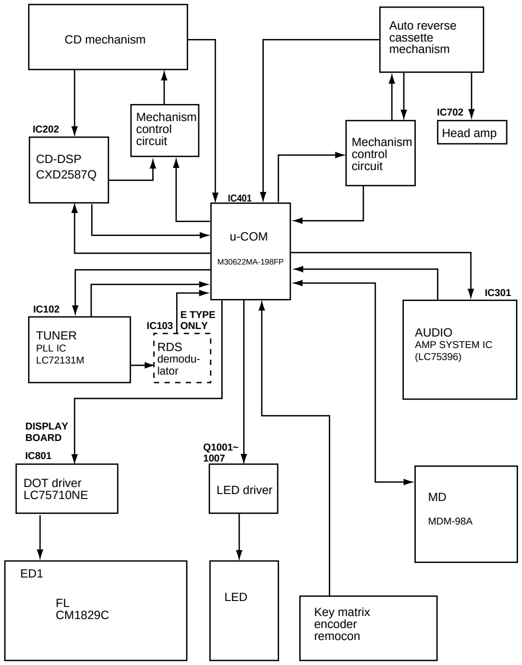
(DSW4=50pin, DSW3=49pin, DSW2=48pin)

| Destination | U-COM Destination | Discrimination | | | Band | Receiving frequency range | Channel space | IF | RF |
|---|---|---|---|---|---|---|---|---|---|
| | | DSW4 | DSW3 | DSW2 | | | | | |
| K, P | K1 | 0 | 0 | 0 | FM | 87.5MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz |
| | | | | | AM | 530kHz~1700kHz | 10kHz | +450kHz | 10kHz |
| M, X | K2 | 0 | 0 | 1 | FM | 87.5MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz |
| | | | | | AM | 530kHz~1610kHz | 10kHz | +450kHz | 10kHz |
| J | J | 0 | 1 | 0 | FM | 76.0MHz~108.0MHz | 100kHz | -10.7MHz | 25kHz |
| | | | | | AM | 531kHz~1629kHz | 9kHz | +450kHz | 9kHz |
| E, T | E1<br>RDS | 1 | 1 | 0 | FM | 87.5MHz~108.0MHz | 50kHz | +10.7MHz | 25kHz |
| | | | | | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz |

0=(input low) 1=(input high)

# 4. Main microprocessor M30622MA-198FP (MAIN BOARD IC401)

## 4-1 Microprocessor periphery block diagram



## 4-2 Key matrix

Vref = 5V

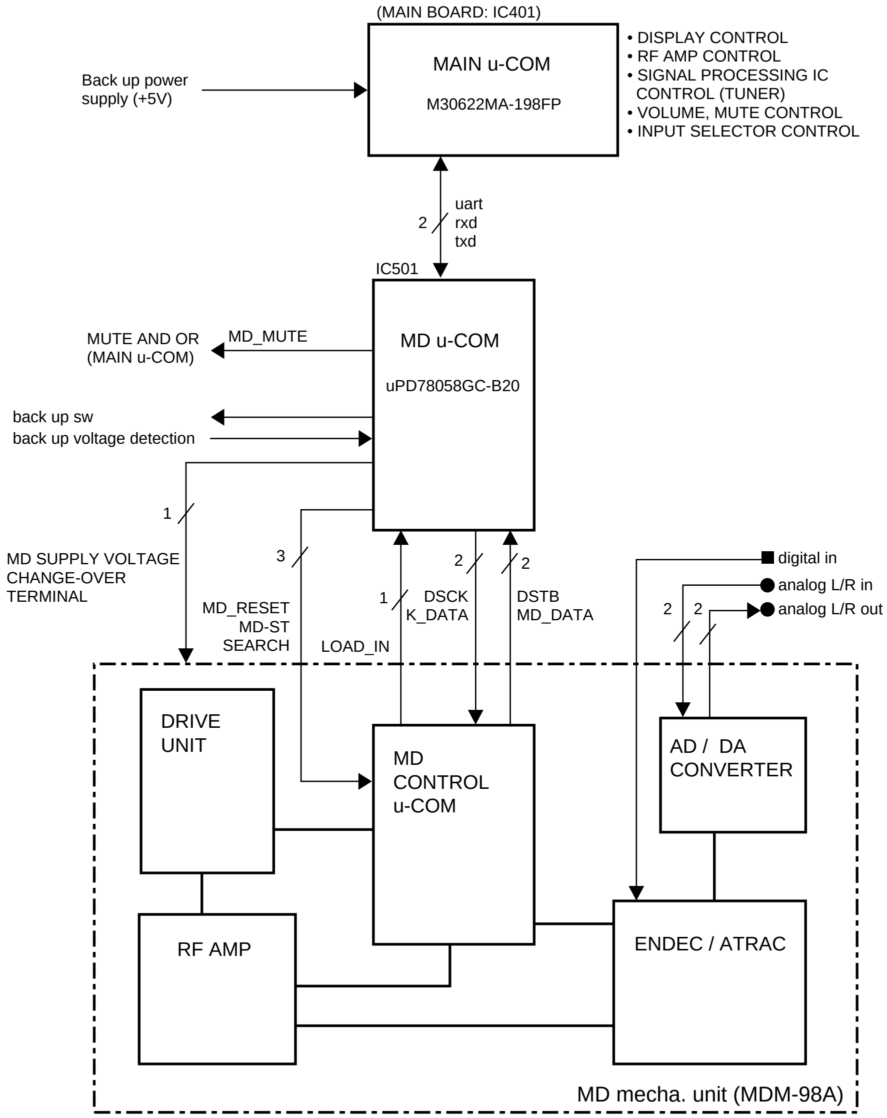
| VOLTAGE [V]<br>A/D (hex) | 0.357＜ ≦1.061<br>12h＜ ≦36h | 1.061＜ ≦1.726<br>36h＜ ≦58h | 1.726＜ ≦2.437<br>58h＜ ≦7Ch | 2.437＜ ≦3.156<br>7Ch＜ ≦A1h | 3.156＜ ≦3.827<br>A1h＜ ≦C3h | 3.827＜ ≦4.586<br>C3h＜ ≦EAh | 4.586＜<br>EAh＜ |
|---|---|---|---|---|---|---|---|
| KEY1 89PIN | SOUND | REPEAT | MENU | SET | POWER | – | KEY OFF |
| KEY2 90PIN | STOP ■ | S. DOWN ⏮ | CD ▶/❚❚ | MD ▶/❚❚ | MD rec (AUX) | – | KEY OFF |
| KEY3 91PIN | S. UP ⏭ | EJECT ⏏ | TUNER/band ◀◀ | AUX ▶▶ | TAPE | TAPE REC | KEY OFF |

## 4-3 Pin description of main microprocessor

| Pin No. | Name | I/O | Description | | | |
|---|---|---|---|---|---|---|
| 1 | CE | O | SYSTEM IC(LC75396)/PLL IC(LC72131)CE | | | |
| 2 | PLL DO | I | PLL data input. | | | |
| 3 | SD | I | Tuner SD detector input. | H: no tuned | L: tuned | |
| 4 | STEREO | I | Tuner stereo detetor input. | H: mono | L: stereo | |
| 5 | EMPHASIS | O | No used. | | | |
| 6 | RDS DATA | I | RDS data input.(E/T type only) | | | |
| 7 | CE | I | AC off detector input. | H: AC on | L: AC off | |
| 8 | BYTE | I | Ground. | | | |
| 9 | CNVSS | I | Ground. | | | |
| 10 | XCIN | I | Timer clock(32.768kHz). | | | |
| 11 | XCOUT | O | Timer clock(32.768kHz). | | | |
| 12 | RESET | I | U-com reset signal input. | H: normal | L: reset | |
| 13 | XOUT | O | Main clock. | | | |
| 14 | VSS | - | Ground. | | | |
| 15 | XIN | I | Main clock. | | | |
| 16 | VCC | - | Power supply(+5.0V) | | | |
| 17 | NMI | I | Power supply(+5.0V) | | | |
| 18 | REMOCON | I | Remocon signal input. | | | |
| 19 | RDX CLK | I | RDS clock input.(E/Ttype only) | | | |
| 20 | SCOR | I | Sub code synchro signal input. | | | |
| 21 | CD DC OFF | O | Power supply control for CD DSP. | H: off | L: on | |
| 22 | SCLK | O | CD sense data read out clock. | | | |
| 23 | SENSE | I | CD sense input. | | | |
| 24 | CD CLK | O | CD DSP clock. | | | |
| 25 | XLAT | O | CD DSP latch output. | | | |
| 26 | CD DATA | O | CD DSP data output. | | | |
| 27 | CD RST | O | CD DSP reset signal output. | H: normal | L: reset | |
| 28 | SQCK | O | CD sub code clock. | | | |
| 29 | SQSO | I | Input of CD sub code. | | | |
| 30 | NC | O | No used. | | | |
| 31 | FL DATA | O | Data output of FL driver. | | | |
| 32 | NC | O | No used. | | | |
| 33 | FL CLK | O | Clock output of FL driver. | | | |
| 34 | CD ZD | - | No used. | | | |
| 35 | UART1 | O | Transmission data output to MD(UART). | | | |
| 36 | UART2 | I | Data input from MD(UART). | | | |
| 37 | LCD | O | CD laser output control. | H: off | L: on | |
| 38 | NC | O | No used. | | | |
| 39 | MD RST | O | MD reset signal output. | H: normal | L: reset | |
| 40 | CD MON | O | ON/OFF control output of disc monitor. | H: on | L: off | |
| 41 | NC | O | No used. | | | |
| 42 | DM SHORT | O | Same as CD power signal. | H: off | L: on | |
| 43 | DOOR SW | I | Input port of CD door switch. | H: open | L: close | |
| 44,45 | NC | O | No used. | | | |
| 46 | MODEL | I | Input port of model discrimination. | | | |
| 47 | DOLBY | I | No used. | | | |
| 48~50 | CODE2~4 | I | Discrimination of tuner destination. | | | |
| 51 | FL RST | O | Reset signal output of FL driver. | | | |
| 52 | PWX33 | O | Control port of MD CE. | | | |
| 53 | ENC1 | I | Rotary encoder input(vol.A). | | | |
| 54 | ENC2 | I | Rotary encoder input(vol.B). | | | |
| 55 | LED5 | O | Control port of LED(MD). | H: on | L: off | |
| 56 | LED4 | O | Control port of LED(CD). | H: on | L: off | |
| 57 | LED3 | O | Control port of LED(standby,RED). | H: off | L: on | |
| 58 | LED2 | O | Control port of LED(standby,GRN). | H: off | L: on | |
| 59 | LED1 | O | Control port of LED(FWD). | H: on | L: off | |
| 60 | LED0 | O | Control port of LED(RVS). | H: on | L: off | |
| 61 | FL CE | O | Output port of CE(FLdriver). | | | |
| 62 | VCC | - | Power supply. | | | |
| 63 | NC | O | No used. | | | |
| 64 | VSS | - | Ground. | | | |
| 65 | A/B-2 | O | Deck activity choise mode. | 65<br>H | 66<br>H | <br>REC |
| 66 | A/B-1 | O | Deck activity choise mode. | L<br>L | H<br>L | REC PAUSE,ARM<br>PLAY |
| 67 | CPM | O | Deck motor control. | H: on | L: off | |
| 68 | SOL | O | Deck solenoid control. | H: on | L: off | |
| 69 | REC F SW | I | Deck FWD REC switch input. | H: off | L: on | |
| 70 | REC R SW | I | Deck RVS REV switch input. | H: off | L: on | |
| 71 | PACK SW | I | Deck pack switch input. | H: off | L: on | |
| 72 | Cro2 SW | - | No used. | | | |
| 73 | PLAY SW | I | Deck play switch input. | H: off | L: on | |
| 74 | B1/2 | - | No used. | | | |
| 75 | A120/70 | - | No used. | | | |
| 76 | BIAS | O | Deck bias control. | H: on | L: off | |
| 77 | NOR | - | No used. | | | |
| 78 | REC/PLAY | - | No used. | | | |
| 79 | NR/ON | - | No used. | | | |
| 80 | S.CL | O | Clock output to system IC/PLL IC. | | | |
| 81 | PRT MD | I | MD protection. | H: protection on | | |
| 82 | FAN H/L | - | No used. | | | |
| 83 | FAN ON/OFF | - | No used. | | | |
| 84 | A MUTE | O | Audio muting control. | H: off | L: on | |
| 85 | CD A MUTE | O | CD analog muting control. | H: on | L: off | |
| 86 | TU.MT | O | Tuner muting control. | H: on | L: off | |
| 87 | PWR07 | O | Power relay control. | H: on | L: off | |
| 88 | PRT07 | I | Detection port of protection. | H: protection on | | |
| 89~91 | KEY1~KEY3 | I | Key A/D input(1~3). | | | |
| 92,93 | A/DP1,A/DP2 | - | No used. | | | |
| 94 | TA.MT | O | Muting control of DECK. | H: on | L: off | |
| 95 | RDS SLEVEL | I | RDS S-level input.(E/T type only) | | | |
| 96 | AVSS | - | Ground. | | | |
| 97 | PHOTO | I | Deck reel detector input. | | | |
| 98 | VREF | - | Reference voltage.(no back up) | | | |
| 99 | AVCC | - | Power supply.(back up) | | | |
| 100 | S.DI | O | Data output to system IC/PLL IC. | | | |

## 5. Composition (MD section)

### 5-1 Microprocessor periphery block diagram



### 5-2 Pin description of MD u-com : UPD78058GC-B20(MD control board, IC501)

| Pin No. | Name | I/O | Description |
|---|---|---|---|
| 1 | PDOWN | O | MDM-98A power down detector. |
| 2 | SEARCH | O | CD search output. |
| 3 | LOAD IN | I | Load switch input. |
| 4 | AVSS | - | A/D power supply(connected to ground). |
| 5 | GND | - | No used. |
| 6 | NC | - | No used. |
| 7 | AVREF1 | - | D/A reference voltage(+5.0V). |
| 8 | UART2 | I | Communiation from main u-com(UART RXD). |
| 9 | UART1 | O | Communiation to main u-com(UART TXD). |
| 10 | NC | - | No used. |
| 11 | MD DATA | I | MD IC input data(MDM-98A input data). |
| 12 | K DATA | O | MD IC output data(MDM-98A output data). |
| 13 | DSCK | O | MD IC clock output(MDM-98A). |
| 14 | DSTB | I | Strobe input for MD IC(MDM-98A). |
| 15 | COMM ANS | I | No used. |
| 16 | COMM DIN | I | No used. |
| 17 | COMM DOUT | O | No used. |
| 18 | COMM CLK | I/O | No used. |
| 19 | COMM REQ | O | No used. |
| 20~31 | - | - | No used. |
| 32 | 6.5/5.0V | O | Change- over of load voltage for MD unit. (disc load/eject : H other : L) |
| 33 | VSS | - | Ground. |
| 34~43 | - | - | No used. |
| 44 | INISW | I | Initial switch input. |
| 45~52 | - | - | No used. |
| 53~55 | GND | - | No used. |
| 56~58 | NC | - | No used. |
| 59 | SRESET | O | No used. |
| 60 | RESET | I | Reset signal input. |
| 61 | GND | - | No used. |
| 62~66 | - | - | No used. |
| 67 | CE | I | Detection signal input of AC OFF. |
| 68 | VDD | - | U-com power supply. |
| 69 | X2 | - | 5MHz oscillator. |
| 70 | X1 | I | 5MHz oscillator. |
| 71 | IC | - | No used. |
| 72 | NC | - | No used. |
| 73 | GND | - | No used. |
| 74 | AVDD | - | A/D power supply. |
| 75 | AVREFO | I | A/D reference voltage. |
| 76 | BACKUP | O | Detection signal(A/D) input for back up.<br>(back up : more than 2.2V no back up : less than 2.2V |
| 77 | AMUTE | O | Analog signal input. H : mute on L : mute off |
| 78 | BACKSW | O | Detection switch input for back up.<br>H : on(in case of CE=H) L :off(in case of CE =L) |
| 79 | MD RESET | O | Reset signal input of MD u-com. H : normal L : MD u-com reset |
| 80 | MD ST | O | ST-ID output(MD ON). |

## 6. Test mode

### 6-1 Test mode of the receiver

(1) Setting of the test mode.
While pressing the [Band] key, plug the AC power cord into an AC power outlet.

(2) Canceling of the test mode.
Unplug an AC power cord.

(3) Condition in test mode.

POWER • • • • • • ON
SELECTOR • • • TUNER [BAND]
FL, LED • • • • • • All the fluorescent display indicate and LEDs light. (The all illuminated state is cleared by pressing any main unit key or remocon key.
EX. BASS • • • • • OFF

(4) Basic operation in test mode.
① The muting during mode selection is not controlled in the test mode.
② The test mode is cancelled when the AC power is turned OFF.

(5) The operation of the keys in the test mode.

| SERECTOR / OPERATION KEY | TUNER | AUX | | |
|---|---|---|---|---|
| MENU | NORMAL ACTIVITY | → DISPLAY → VOLUME (VOLUME15) | DISPLAY → INPUT (INPUT 0 ) | DISPLAY BALANCE (CENTER) |
| ⏮ | P.CALL : DOWN | VOLUME 1 | INPUT-6(dB) | - |
| ■ | P.CALL : 10 STEP CHANGEOVER<br>→10 →20 →30 →40 →01 | VOLUME 40 | INPUT 0 (dB) | - |
| ⏭ | P.CALL : UP | VOLUME 80 | INPUT+3(dB) | - |
| REPEAT | → EQU.MAX → EQU.MINI → EQU.FLAT | | | |
| SOUND<br>(E.T only) | S-LEVEL DISPLAY<br>→ ATT OFF ＊ ＊<br>↓<br>ATT ON ＊＊<br>↓<br>TUNER ATT OFF (NORMAL DISPLAY)<br>＊＊ : S-LEVEL A/D VALUE(HEX) | NORMAL ACTIVITY | | |

## 6-2 Test mode of DECK section

(1) Setting
While pressing the TAPE key(DECK), plug the AC power cord into an AC power outlet.

(2) Resetting
Disconnect the AC power cord from an AC power outlet or press the [ON/STANDBY] key.

(3) Operation in TEST mode

(a) Initial condition

| Item | Condition |
|---|---|
| Power | ON |
| Selector | TAPE |
| Main VOL. | 0dB (VOL. 80) |
| Input level(AUX) | -6dB(INPUT 0) |
| EX. bass | OFF |
| FL, LED, LCD | All the FLs, LEDs, and LCDs are turned on |

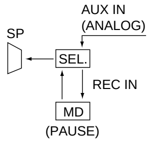
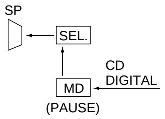
(b) 4-sec REC
- If the REC key is pushed, the system record for 4sec. Then, it rewinds to the REC starting position and plays back automatically.
- If the REC key is pushed during the 4-sec REC operation, the system records further for 4-sec, then returns to the starting position of the first 4-sec REC operation and plays back.

(c) Mechanism half switches indication
The mechanism half switches status are indicated "/ " or "TAPE" on the display as shown below.

| DOT (DISPLAY) | 1st figure | 2nd figure | 3rd figure | 4th figure |
|---|---|---|---|---|
| MECHA. HALF SWITCH | FWD REC INHIBIT DETECTION SW | RVS REC INHIBIT DETECTION SW | CRO2(TYPE Ⅱ) DETECTION SW | CASSETTE HALF DETECTION SW |
| NG | / | / | / | / |
| OK | T | A | P | E |

## 6-3 Test mode of MD player

6-3-1 Inspection mode
Setting : While pressing the [MD REC] Key, plug the AC power cord into an AC power outlet.
The "INSPECTION" shows on the display.
Cancellation : Unplug the AC power cord from an AC power outlet.

| No. | Contents of TEST mode | Keys | Operation & Indication | RemarKs |
|---|---|---|---|---|
| 1 | Analog through test mode | SOUND | • The "ANALOG" is indicated on the display for a second.<br>• AUX input level→MID<br>• Source indicator (MD) is turned ON . |  |
| 2 | Digital through test mode | SOUND | • The "DIGITAL1" is indicated on the display for a second. "DIGITAL1"→CD input<br>• Source indicator (MD) is turned ON. |  |

### 6-3-2 MD TEST mode for adjustment

**1. Preparation for adjustment**
**Test disc**

| | Type | Test disc |
|---|---|---|
| 1 | High reflection disc | TGYS1 (SONY) |
| 2 | Low reflection disc | Recording minidisc |
| 3 | ——————— | Head Adjusting transparent |

**2. Test mode**
**Test mode setting method**

1. While pressing the [MD PLAY] key, plug the AC power cord into the AC power outlet.
(Start fromⒶ if no disc load, Ⓒif disc load.)

STEP Display
Ⓐ MD
↓
Ⓑ EJECT
↓
Ⓒ AUT YOBI
↓ Change to step Ⓓ if press <MD STOP> key. Return to Ⓒ if press <MD REC>key.
Ⓓ tsm ○○○○e○○ : Test mode STOP state
○○○○: MD microprocessor version.

* Repair service is available for AUTO pre-adjustment and AUTO adjustment only.
Press MD STOP key to cancel the test mode if in needless test modes.

**Entering the specific mode**
Whenever the [MD REC] button is pressed, the mode is changed.

→ AUTO pre-adjustment (AUT YOBI) → AUTO adjustment (AUTO AJST) → RESULT SUB (RST YOBI) → RESULT (RESULT)
→ MANUAL pre-adjustment (MNU YOBI) → MANUAL adjustment (MNU AJST) → EEPROM setting (EEPROM SET) →
( ): Display

**• Canceling the test mode**
When the POWER button is pressed, the test mode is canceled, and the POWER OFF state is set.

### • Test Mode

| | |
|---|---|
| 1. AUTO pre-adjustment mode | • Automatic pre-adjustment is performed. (After adjustment the grating adjustment mode is set.)<br>• The adjustment value is output with the aid of system controller interface. |
| 2. AUTO adjustment mode | • Automatic adjustment is performed.<br>• The adjustment value is output with the aid of system controller interface.<br>• Continuous playback is performed. (Error rate indication, jump test) |
| 3. RESULT sub-mode* | • The measurement value, set value and calculated value are indicated.<br>• The set value is changed manually (in servo OFF state). |
| 4. RESULT mode (final adjustment)* | • The set value (after calculation) is indicated.<br>• The set value is changed manually (in servo OFF state). |
| 5. MANUAL pre-adjustment mode* | • RF side manual adjustment is performed.<br>• Focus and tracking signal ATT manual adjustment is performed.<br>• Focus and tracking signal offset setting is performed. |
| 6. MANUAL adjustment mode* | • Focus and tracking signal ATT manual adjustment is performed. |
| 7. EEPROM setting mode* | • Don't adjust. |
| 8. TEST-PLAY mode* | • Continuous playback from the specified address is performed.<br>• C1 error rate measurement, |
| 9. TEST-REC mode* | • Continuous recording from the specified address is performed.<br>• Change of record laser output (servo gain is also changed according to laser output) |
| 10. EJECT mode* | • TEMP setting (of EEPROM setting) |

* This mode is not used for service.

### 1. AUTO pre-adjustment mode (Low reflection disc only)

| Step No. | Setting Method | Remarks | Display |
|---|---|---|---|
| Step 1 | Test mode STOP state | | [ t s m◯◯◯◯ e ◯◯ ] |
| Step 2 | Press once the MD REC button. | AUTO pre-adjustment menu | [ ATU YOBI ] |
| Step 3 | Press once the MD PLAY button.<br>End of adjustment | The slide moves to the innermost periphery, and automatic pre-adjustment is started.<br>• During automatic adjustment ✳✳✳ changes as follows.<br>HAo→RFg→SAg→SBg→PTG→PCH→GTG→GCH→RCG→SEG→RFG→SAG→HAO→HEO→TCO→LAO<br>If adjustment is OK, Step 4.<br>If adjustment is NG, Step 5. | [ ✳✳✳ : _ _ _ _ _ _ ] |
| Step 4 | Grating adjustment,<br>adjustment value output<br>Press once the MD STOP button. | STEP 2 | [_COMPLETE_] |
| Step 5 | Adjustment value output<br>Press once the MD STOP button. | STEP 2 AUTO pre-adjustment menu | [ AUT YOBI ] |

• ✳✳✳ : Adjustment name, □□□□ : Address

### 2. AUTO adjustment mode

| Step No. | Setting Method | Remarks | Display |
|---|---|---|---|
| Step 1 | Test mode STOP state | | [ t s m◯◯◯◯ e ◯◯ ] |
| Step 2 | Press the MD REC button two times. | AUTO adjustment menu | [AUTO_AJST_] |
| Step 3 | Press once the MD PLAY button.<br>End of adjustment | The slide moves to the innermost periphery, and automatic adjustment is started.<br>• In case of high reflection disc ✳✳✳ changes as follows.<br>PEG→HAG<br>•In case of low reflection disc ✳✳✳ changes as follows.<br>PEG→LAG→GCG→GEG→LAG<br>If adjustment is OK, Step 4.<br>If adjustment is NG, Step 7. | [ ✳✳✳ : _ _ _ _ _ _ ] |
| Step 4 | Adjustment value output<br>Press the MD PLAY button.<br>Press the MD STOP button. | STEP 5<br>STEP 2 | [_COMPLETE_] |
| Step 5 | Continuous playback (groove section) | | [ a□□□□c◯◯◯◯ ] |
| Step 6 | Press the MD STOP button. | STEP 2 AUTO adjustment menu | |
| Step 7 | Adjustment value output<br>Press the MD STOP button. | STEP 2 AUTO adjustment menu | [ Can't_ADJ. ] |

• ✳✳✳ : Adjustment name, ◯◯ : Measurement value, □□□□ : Address

### ● Mechanism Adjustment

#### 1. Optical pickup grating inspecting method

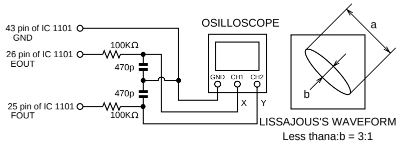
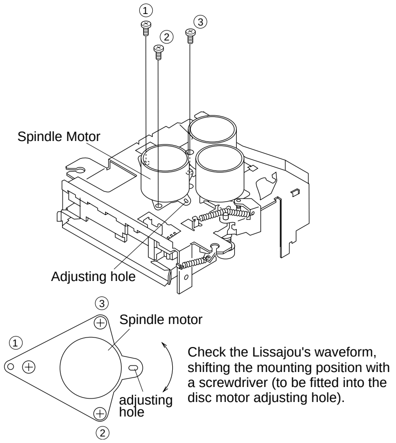


**Figure 1-1 Optical Pickup Grating Deviation Measuring Method**

After the automatic adjustment is performed in the AUTO mode (test mode) with the aid of high refection MD disc ("COMPLATE" is displayed), the Lissajous's waveform (x-y) is adjusted.

1. Slightly loosen the 3 screws of spindle moto, and maken an adjustment, observing the Lissajous's waveform.
2. After adjustment tighten the screw in order of ①, ②, ③.



Check the Lissajou's waveform, shifting the mounting position with a screwdriver (to be fitted into the disc motor adjusting hole).

**Figure 1-2**

#### 2. Jitter adjustment and checking method

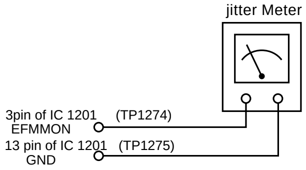


**Figure 1-3 Jitter connection diagram**

After performing automatic adjustment in AUTO mode of TEST mode using the low reflection MD disc, check this jitter in pit continuous playback and groove continuous playback mode.

### 6-4 Test mode of CD player

6-4-1 Main unit

(1) Setting of the test mode

While pressing the [CD PLAY] key, plug the AC power cord into an AC outlet.

(2) Canceling of the test mode.

Unplug the AC power cord from AC power outlet.

(3) Operation

<table>
<tr><th>KEY</th><th>DISPLAY</th><th>OPERATION</th></tr>
<tr><td>[CD PLAY]<br>+AC</td><td>CD 5 01</td><td>POWER ON, SEL CD<br>Mecha. initialization</td></tr>
<tr><td>STOP</td><td>CD 5 01</td><td>STOP</td></tr>
<tr><td rowspan="2">PLAY/PAUSE<br>PAUSE<br>↓ ↑<br>PLAY<br>(Cyclically changed)</td><td>CD 5 05<br>PLAY MARK<br>ON ▶</td><td>05 MODE</td></tr>
<tr><td>CD 5 03<br>PAUSE MARK<br>ON ❚❚</td><td>03 MODE<br>(TRACKING SERVO OFF)</td></tr>
<tr><td>SKIP DOWN</td><td>CD 5</td><td>Indication<br>: Adjustment value/Mean value (stop mode only)/HEX
<table>
<tr><th>DOT section</th><th>TNO section</th><th>SEC. section</th></tr>
<tr><td>TB/FB</td><td>TB value</td><td>FB value</td></tr>
<tr><td>TG/FG</td><td>TG value</td><td>FG value</td></tr>
<tr><td>FE/RF</td><td>FE value</td><td>RF value</td></tr>
<tr><td>TE/VC</td><td>TE value</td><td>VC value</td></tr>
</table></td></tr>
<tr><td>SKIP UP</td><td>CD 5 06</td><td>Read TOC → play</td></tr>
</table>

### 7. MD mechanism error message

| DISPLAY | DESCRIPTION |
|---|---|
| BLANK DISC | Non Recorded disc |
| CAN'T COPY | Inhibit to record by SCMS |
| CAN'T EDIT | Inhibit to edit by MD standard |
| CAN'T REC | Inhibit to record by disc damage(10 or more defects/recordable cluster is 0) |
| DISC ERROR** | OR : UTOC read error or FTNO>LTNO |
| | (edit/record) permit ALL ERASE only |
| | DO : Start address TNO>endless TNO |
| | (playback) handle poor TNO as 1SG |
| | (edit/record) permit ALL ERASE only |
| | C0 : Write poor data in UTOC0 |
| | C1 : Write poor data in UTOC1 |
| | C2 : Write poor data in UTOC2 |
| | C4 : Write poor data in UTOC4 |
| | (play back) playback even if address roof(C0) |
| | (edit/record) permit ALL ERASE only |
| DISC FULL | No recordable area |
| MECH ERR** | 10-13 : head poor down |
| | 20-23 : head poor up |
| no disc | No disc in the unit |
| NO TRACKS | Disc recorded title only |
| NOT AUDIO | Disc recorded audio signal. |
| PLAY ONLY | Record to music disc |
| PROTECTED | Record disc inhibited to record |
| READING | In mode of reading TOC or UTOC |
| SRCH ERR** | 30 : Search time over in playback, FF or FB |
| | 31 : Search time over in REC-PAUSE |
| | 32 : Search time over in record |
| TEMP OVER | High temperature |
| TITLE FULL | Input over letter of title |
| UNIT ERROR | Hardware damage |
| UTOC W ERR | Error of writing to UTOC |
| WRITING | In writing to UTOC |

## Adjustment of tuner

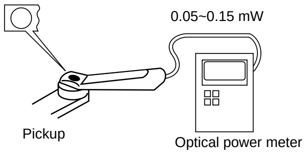
| No. | ITEM | INPUT SETTING | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| 1 | TUNED LEVEL | (A)<br>98 MHz,<br>31.2dBf (ANT INPUT)<br>1kHz, ±40 kHz DEV | – | MONO<br>98.0 MHz | VR101 | Adjust VR1 and stop at the point where ED1 (TUNED) goes ON. |  |

## Adjustment of CD player

| No. | ITEM | INPUT SETTING | OUTPUT SETTING | PLAYER SETTING | ALIGNMENT POINT | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| **TEST MODE : While pressing the [CD PLAY] key, plug the AC power cord into the AC outlet.** |  |  |  |  |  |  |  |
| 1 | LASER POWER | – | Set the senor section of the optical power meter on the pickup lens. | Press the "PLAY" key to check that the display is "03". | – | On the power from.0.05 to 0.15mw. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more | (a) |
| 2 | FOCUS ERROR BIAS | Test disc Type 4 | Connect an oscilloscope as follows.<br>(+)side : RF(IC201, 17pin)<br>GND : VREF(test pin) | Press the "PLAY" key. Confirm that the display is "05". | VR201 | Optimum eye pattern | (b) |

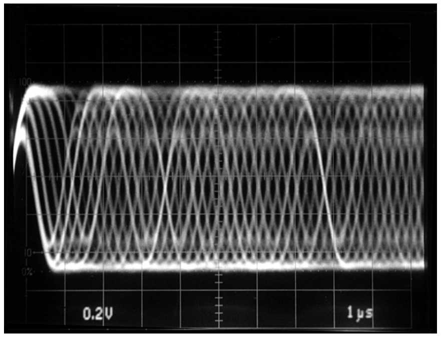
Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent.
LPF : Around 47kΩ + 390pF or so.

**(a) Laser Power**



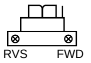
**(b)**

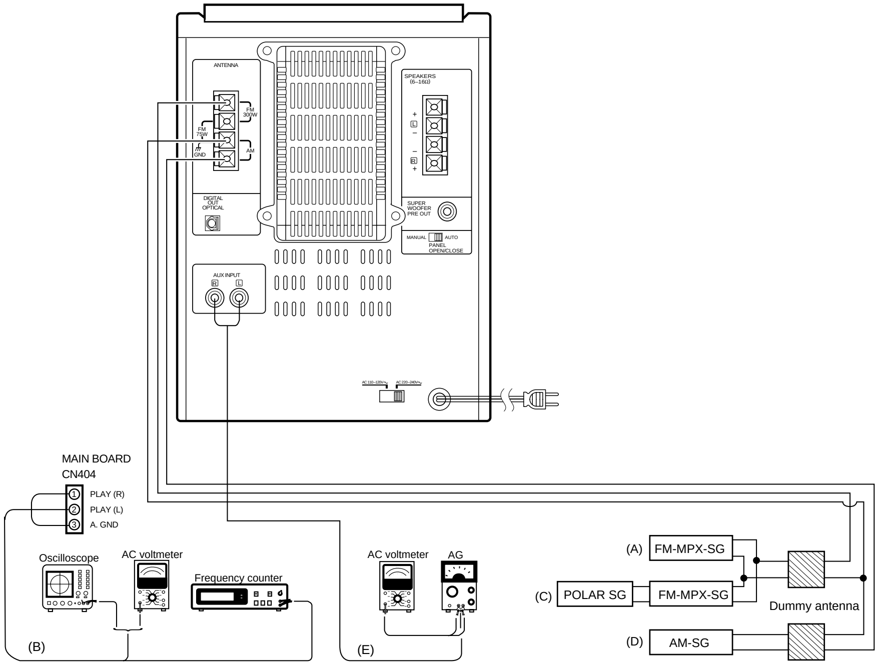
RF signal : AC coupled



- ● RF signal in test mode (PLAY).
- ● Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

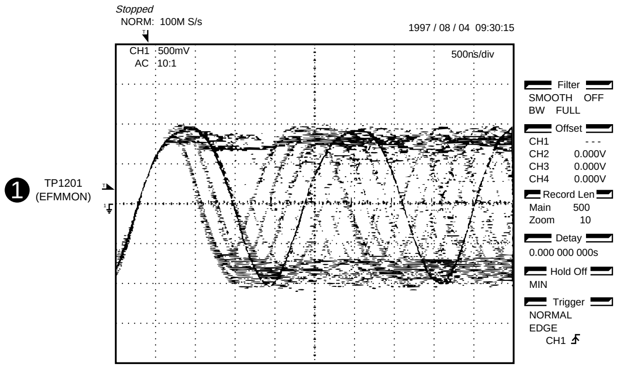
## Adjustment of cassette deck

| NO. | ITEM | INPUT SETTING | OUTPUT SETTING | CASSETTE TAPE DECK SETTING | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| **Unless otherwise specified, set the respective switches as follows:** **0dBs = 0.775V**<br>**TAPE : NORMAL** **DOLBY : OFF**<br>**I Cassette mechanism unit (Adjustment of the REC / PLAY head)** |  |  |  |  |  |  |  |
| (1) | Demagnetization and cleaning | — | — | Power : OFF<br>Demagnetization, cleaning, PLAY | Recording head, erase head, capstan pinch roller | Demagnetize the REC / PLAY head with the head eraser. Clean the REC/ PLAY head, erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol. |  |
| (2) | Azimuth of the REC / PLAY head | SCC-1727<br>TCC-153<br>MTT-114<br>10kHz, -10dB | (B) | PLAY |  | Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45˚ straight ling. |  |
| **II PC board adjustment.** |  |  |  |  |  |  |  |
| (1) | BIAS CURRENT | (E)<br>• Set the AUX input level to +3dB.<br>• Adjust the AG for the output of the deck to become -20dB (400Hz/12.5kHz). | (B) | REC PLAY | VR701(L)<br>VR702(R) | Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same. |  |

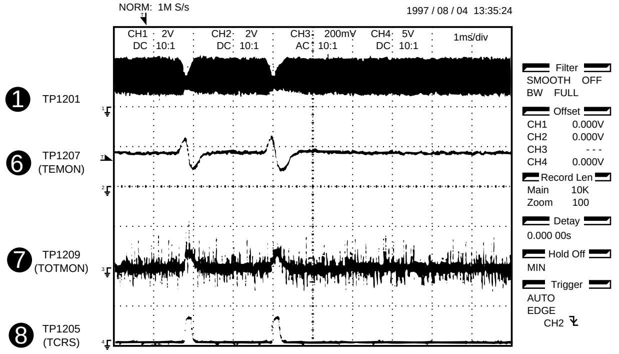


# WAVE FORM

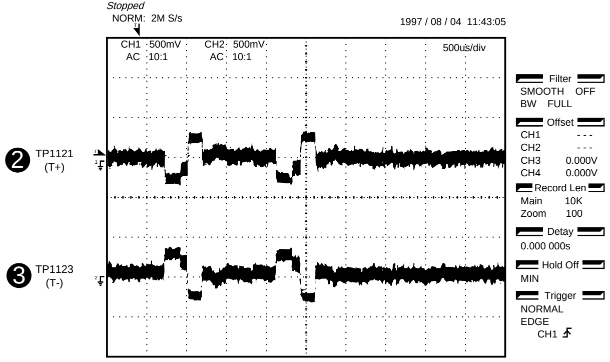
PLAY



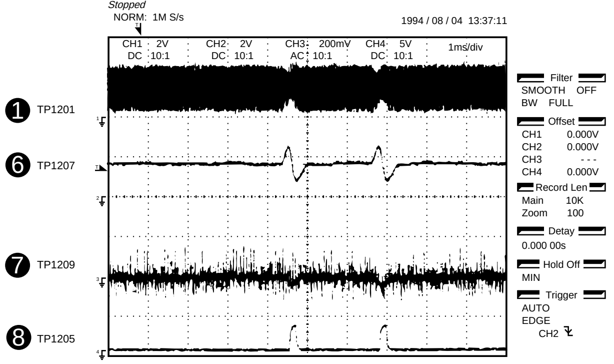
PIT PLAY



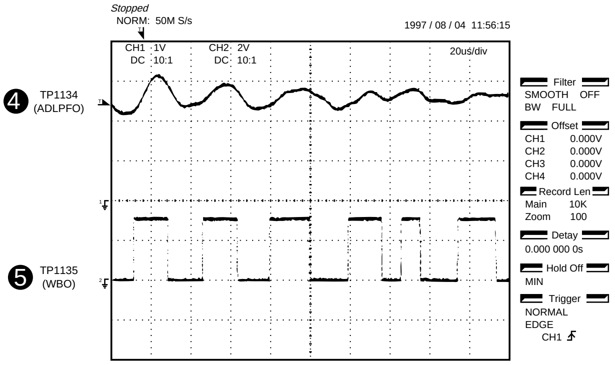
GROOVE PLAY



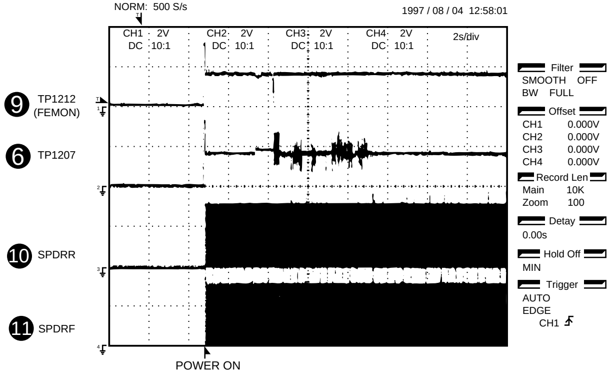
GROOVE PLAY



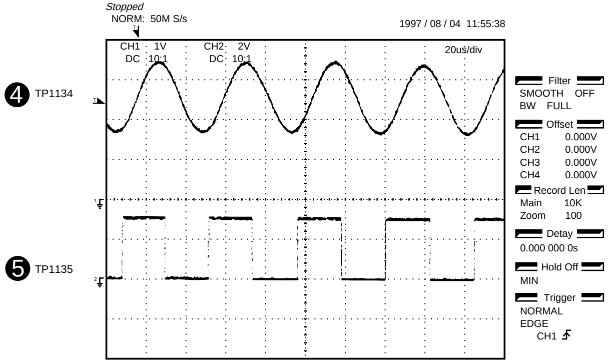
PIT PLAY



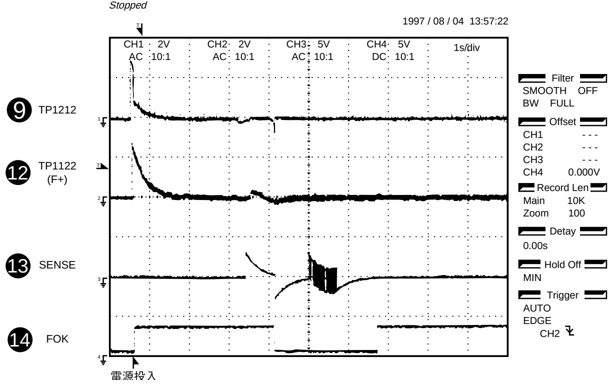
POWER OFF→STANDBY



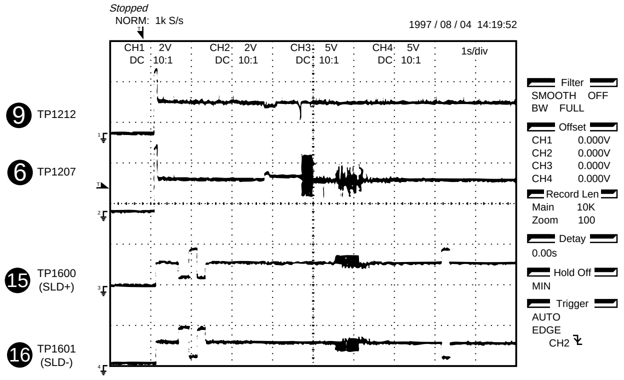
GROOVE PLAY



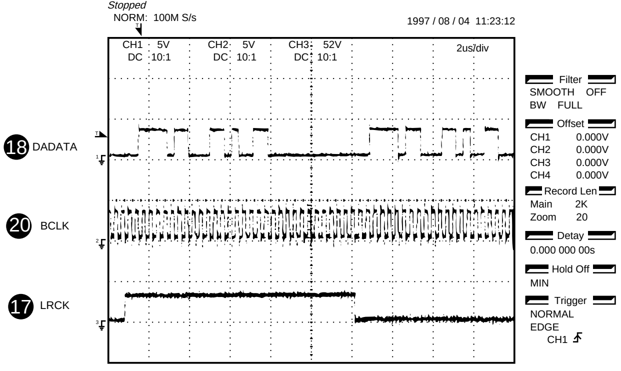
POWER OFF→STANDBY

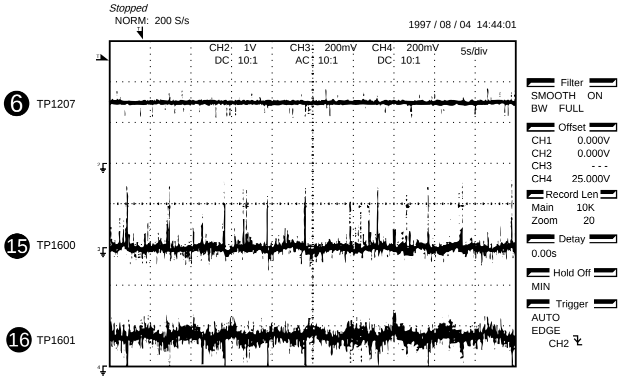


# WAVE FORM

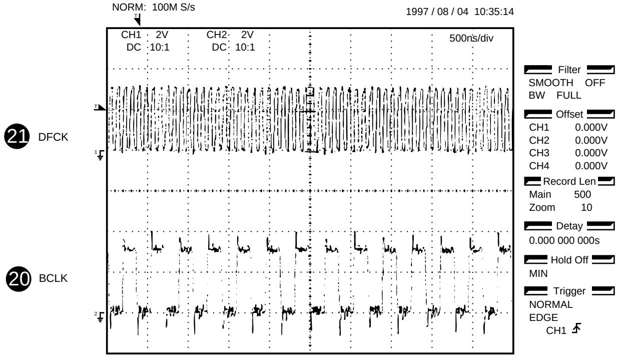


PLAY

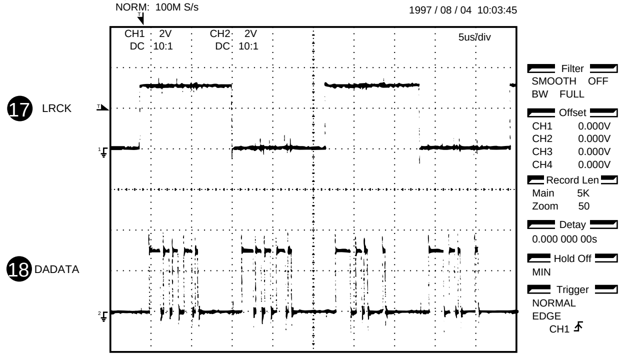




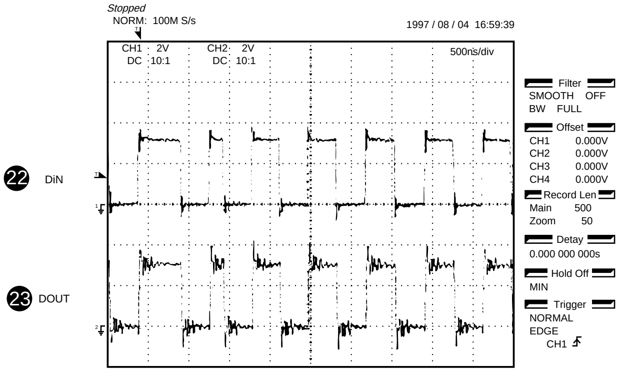
PLAY



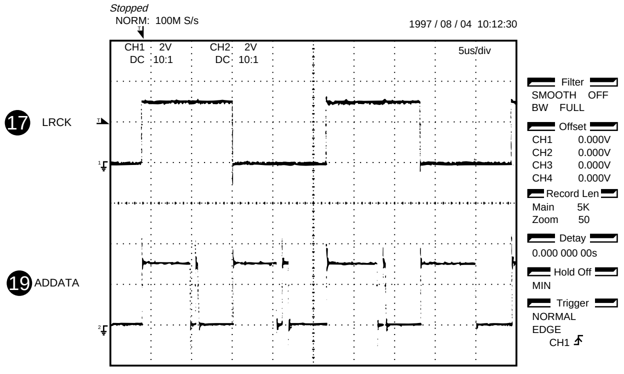
D/A CONV. PLAY



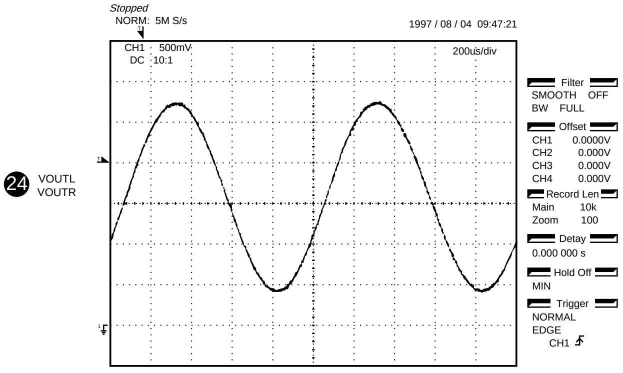
DIGITAL REC



A/D CONV. ANALOG RECORD(NO SIGNAL)



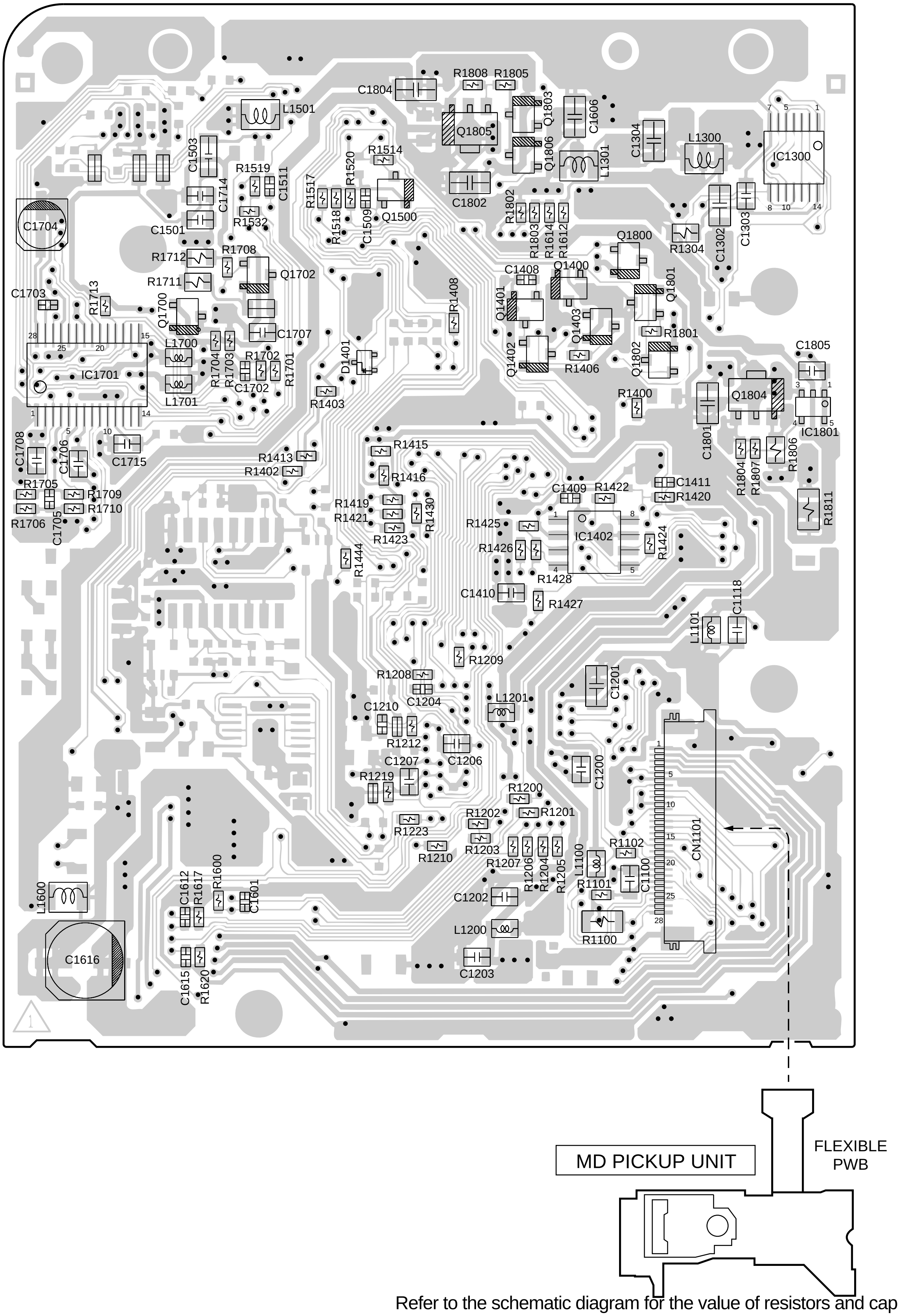
1 kHz 0dB SINEWAVE PLAY



# PC BOARD (Component side view)

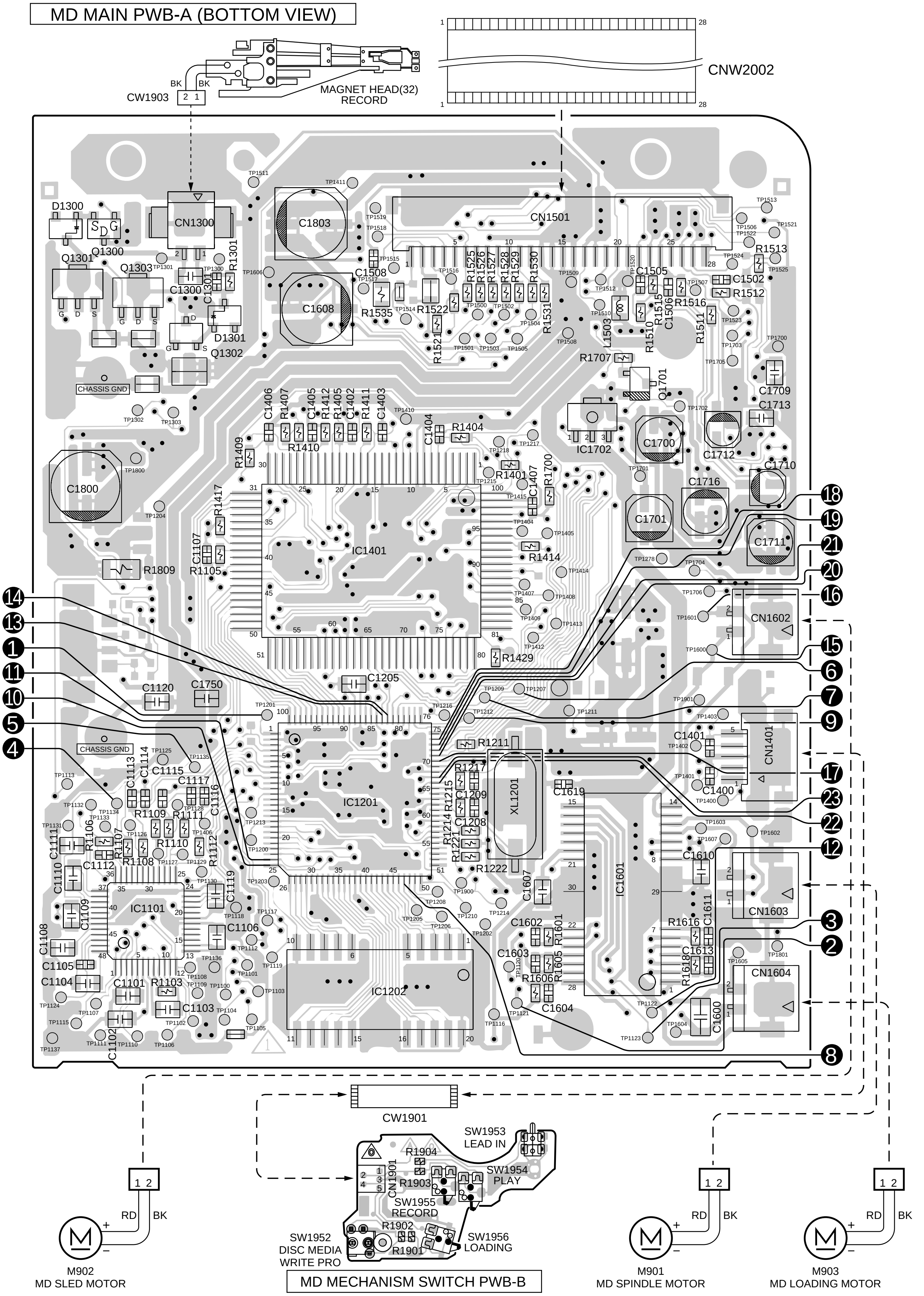
MD MAIN PWB-A (TOP VIEW)

● **Through hole.**



Refer to the schematic diagram for the value of resistors and capacitors.

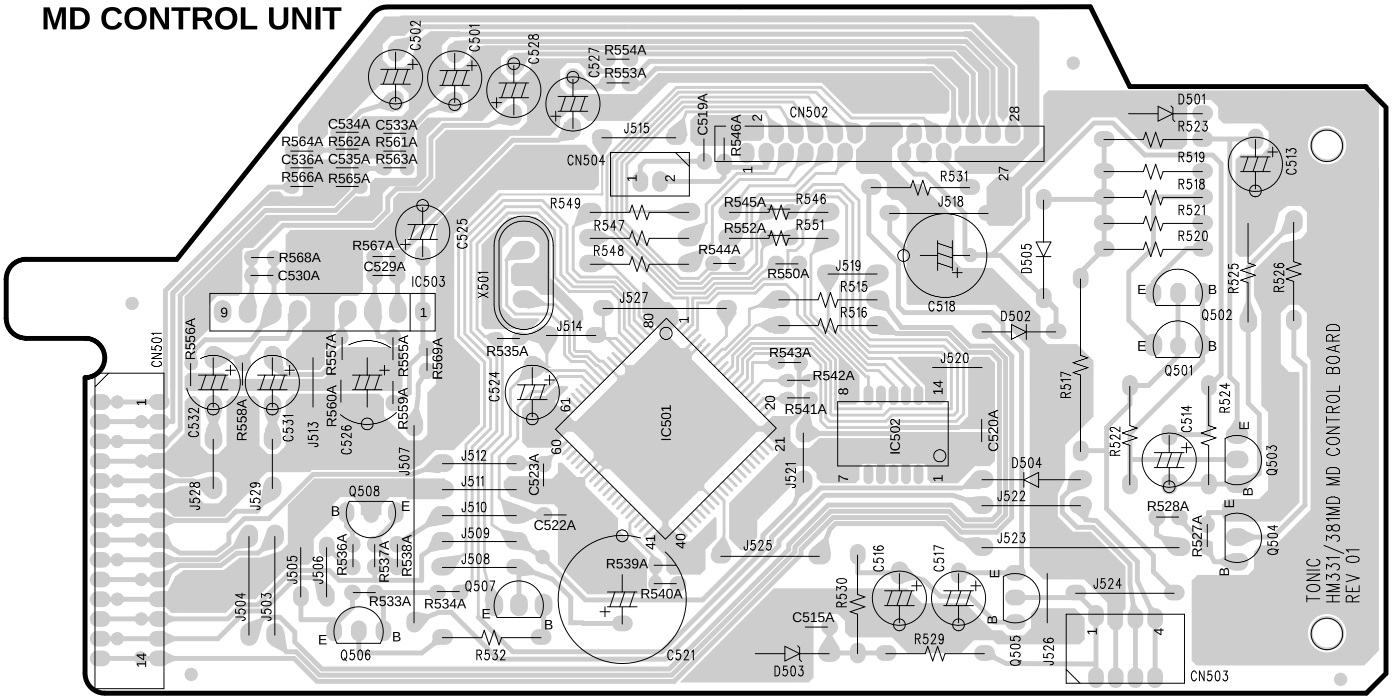
# PC BOARD (Component side view)



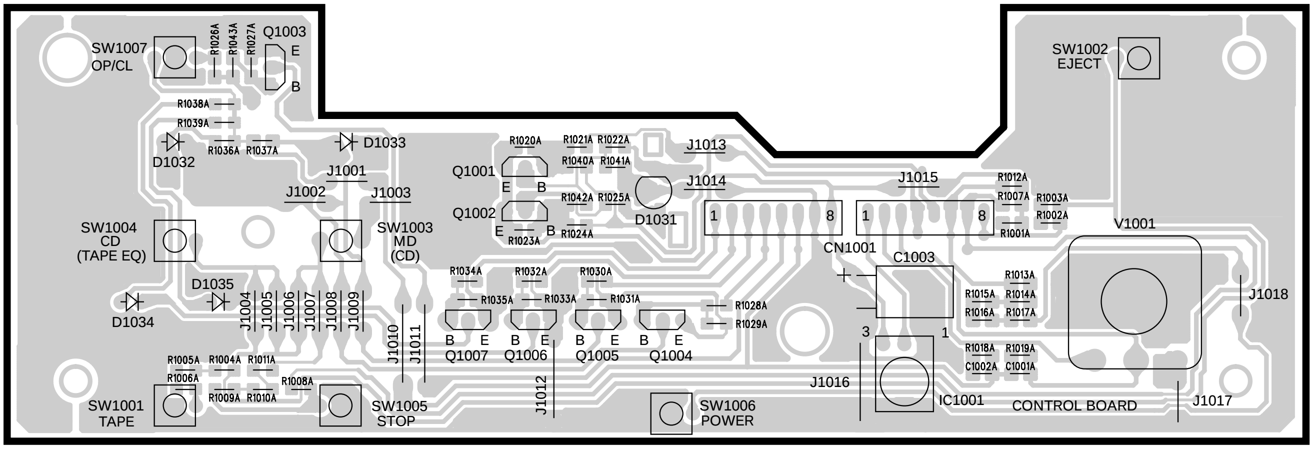
The numbers ❶ to ⓳ are waveform numbers shown in page 12,13.
Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

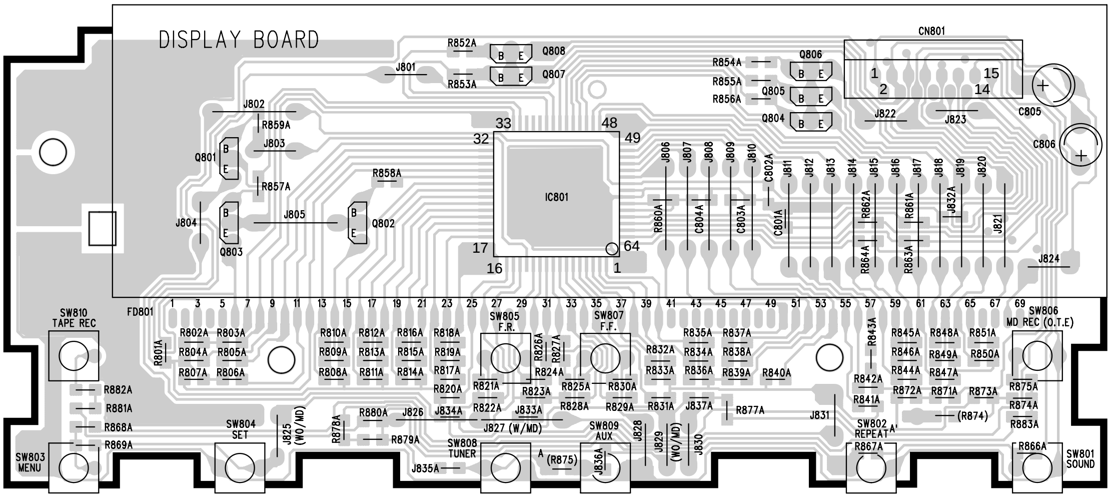
## MD CONTROL UNIT



## KEY CONTROL UNIT



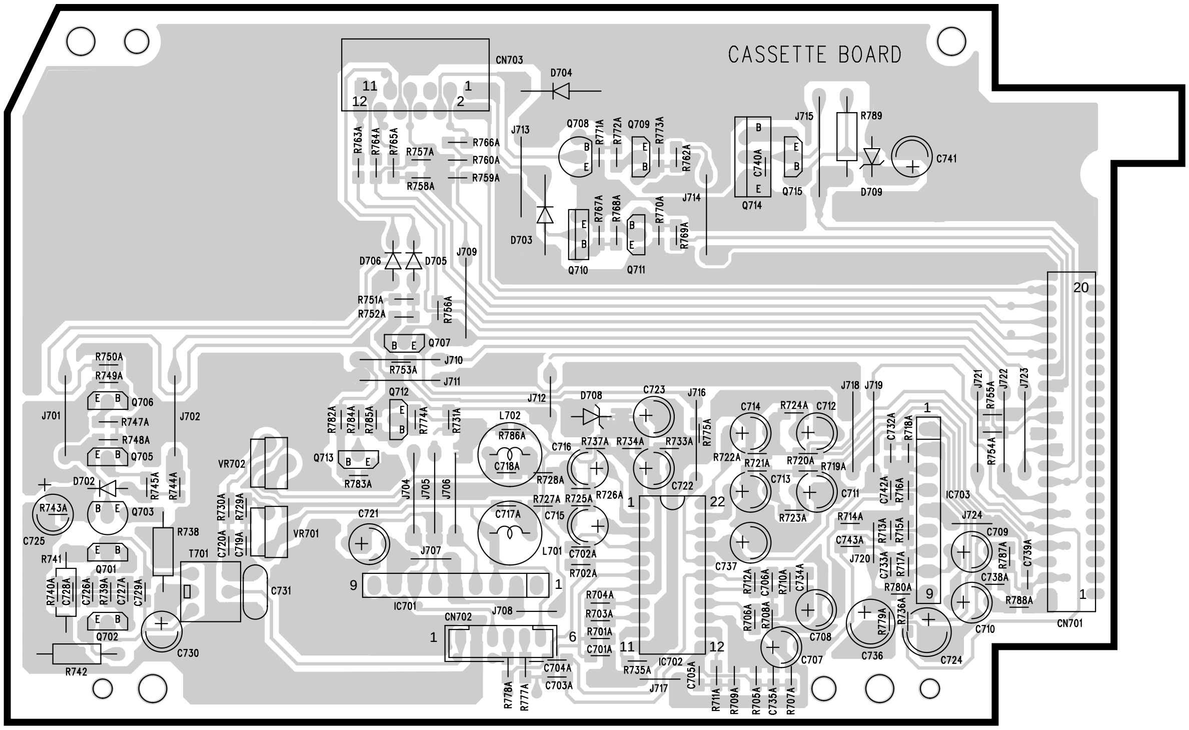
## DISPLAY UNIT



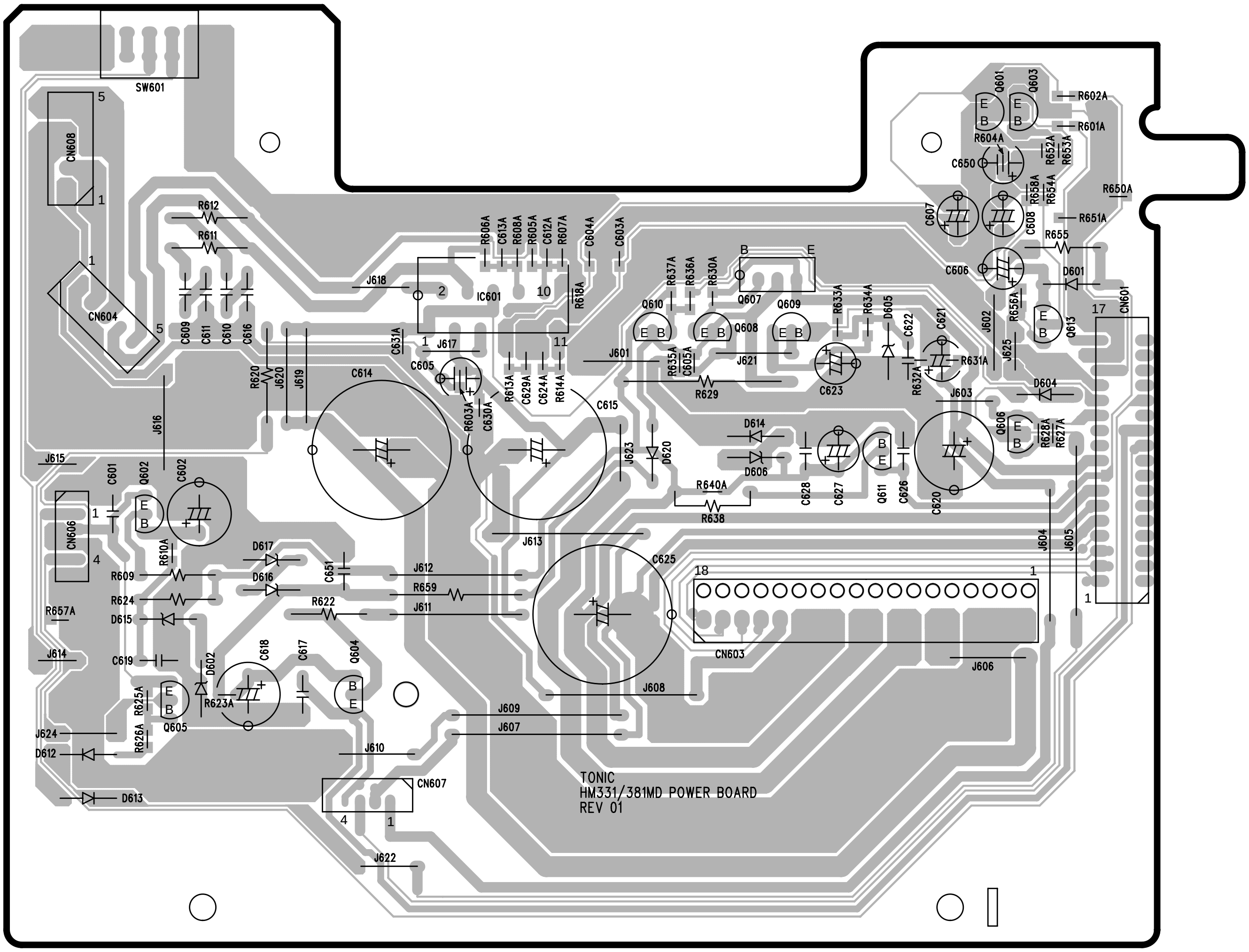
Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

## CASSETTE DECK UNIT


CASSETTE BOARD
CN703
D704
11 12 1 2
R763A R764A R765A R757A R766A R760A R759A R758A
J713
Q708 R771A Q709 R772A R773A R762A
J715 R789
C740A Q714 Q715 D709 C741
D703 R767A R768A R770A R769A J714
Q710 Q711
D706 D705 J709
R751A R752A R756A
Q707 R753A J710 J711
R750A R749A Q706 R747A R748A Q705
J701 J702
D702 R745A R744A Q703 R743A C725
R741 R738 T701 Q701
R740A C728A C726A R739A C727A C729A
Q702 R742 C730 C731
Q712 R782A R784A R785A R774A R731A
Q713 R783A VR702 VR701 C730A R729A C720A C719A
C721 J704 J705 J706 J707
L702 R786A C718A C716
C717A L701 C715 C702A R702A
IC701 9 1 J708 CN702 1 6
D708 C723 J716 J712
R737A R734A R733A R775A
R728A R727A R725A R726A C722
C714 R724A C712 R722A R721A R720A R719A
C713 C711 R723A
1 22 11 12
R704A R703A R701A C701A R735A IC702 J717 C705A
C704A C703A R778A R777A
C737 R712A C706A R710A C734A R706A R708A
C708 C707 C736
R711A R709A R705A C735A R707A
J718 J719 C732A R718A IC703 R716A C742A
R714A C743A R713A R715A J720 C733A R717A R780A R736A R779A
C724 C710 J724 C709 R787A C738A R788A R739A
J721 R755A J722 J723 R754A
CN701 20 1 9

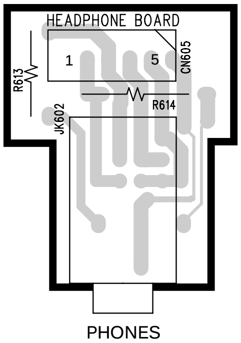
## POWER UNIT

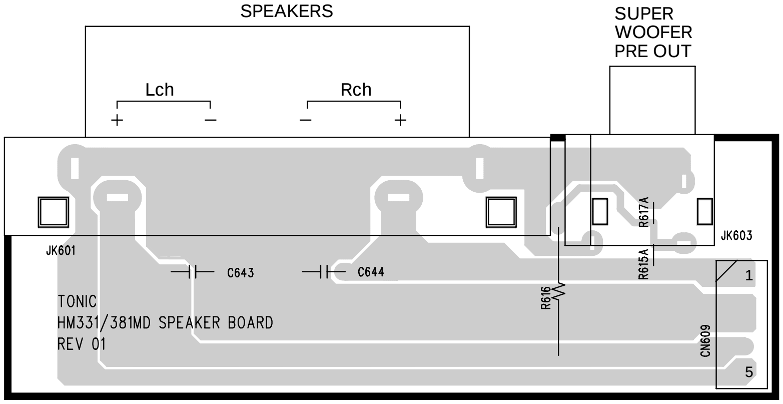


Refer to the schematic diagram for the value of resistors and capacitors.

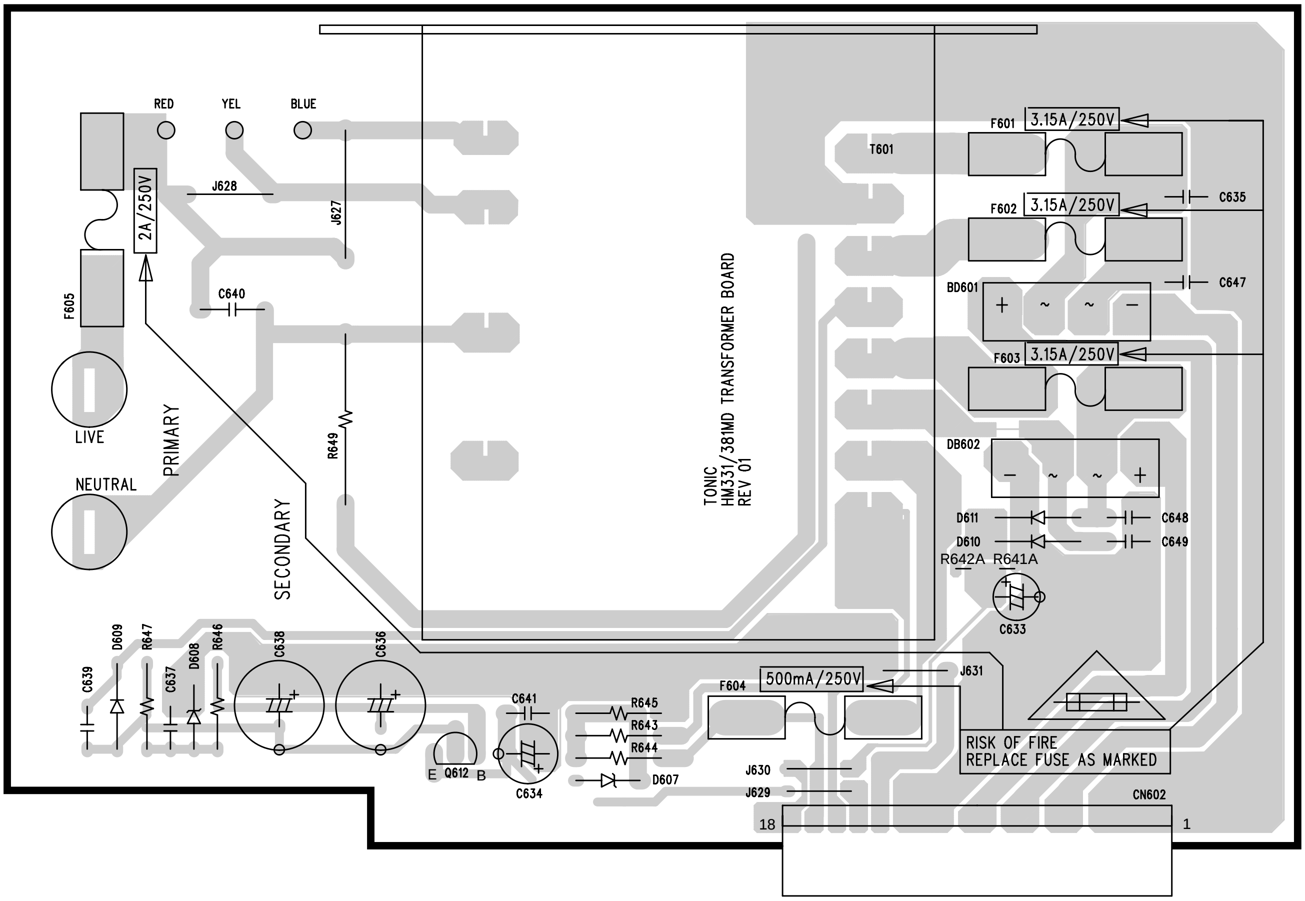
# PC BOARD (Component side view)

## POWER UNIT

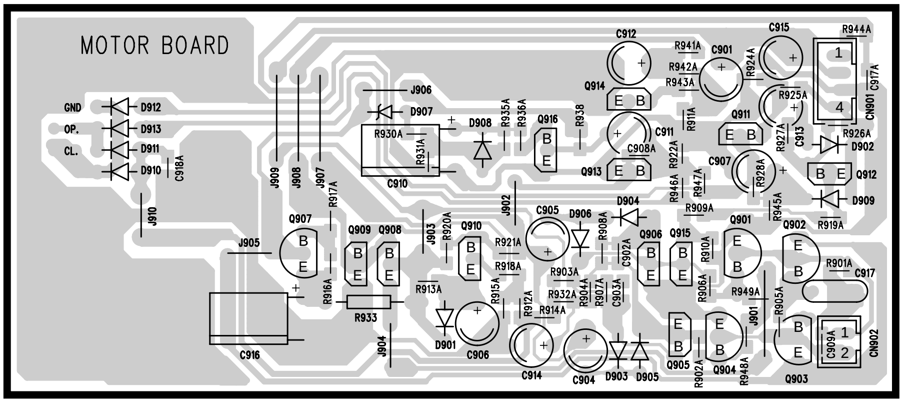




## POWER UNIT

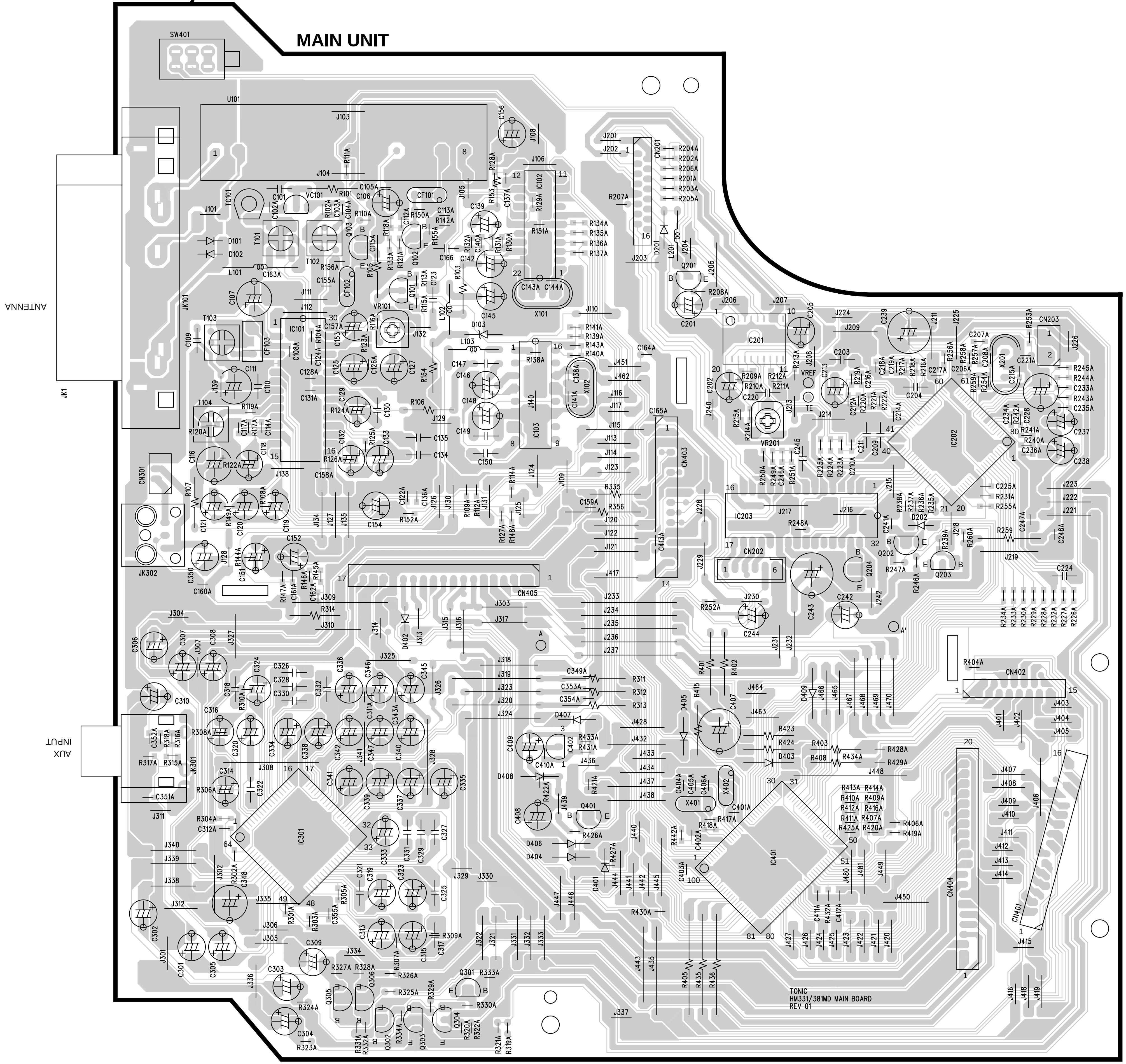


## MAIN UNIT



Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD(Component side view)

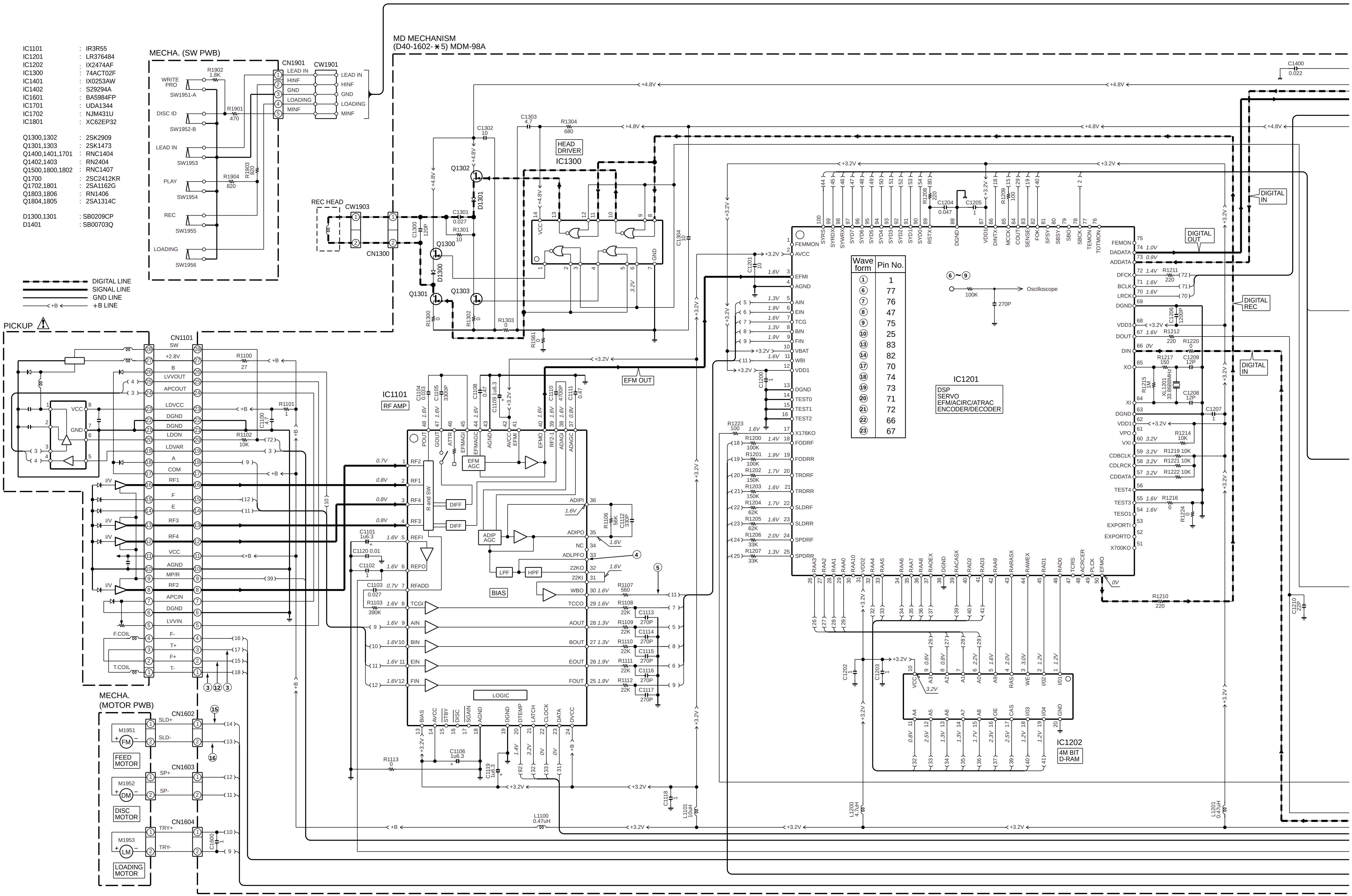


Refer to the schematic diagram for the value of resistors and capacitors.

IC1101 : IR3R55
IC1201 : LR376484
IC1202 : IX2474AF
IC1300 : 74ACT02F
IC1401 : IX0253AW
IC1402 : S29294A
IC1601 : BA5984FP
IC1701 : UDA1344
IC1702 : NJM431U
IC1801 : XC62EP32

Q1300,1302 : 2SK2909
Q1301,1303 : 2SK1473
Q1400,1401,1701 : RNC1404
Q1402,1403 : RN2404
Q1500,1800,1802 : RNC1407
Q1700 : 2SC2412KR
Q1702,1801 : 2SA1162G
Q1803,1806 : RN1406
Q1804,1805 : 2SA1314C

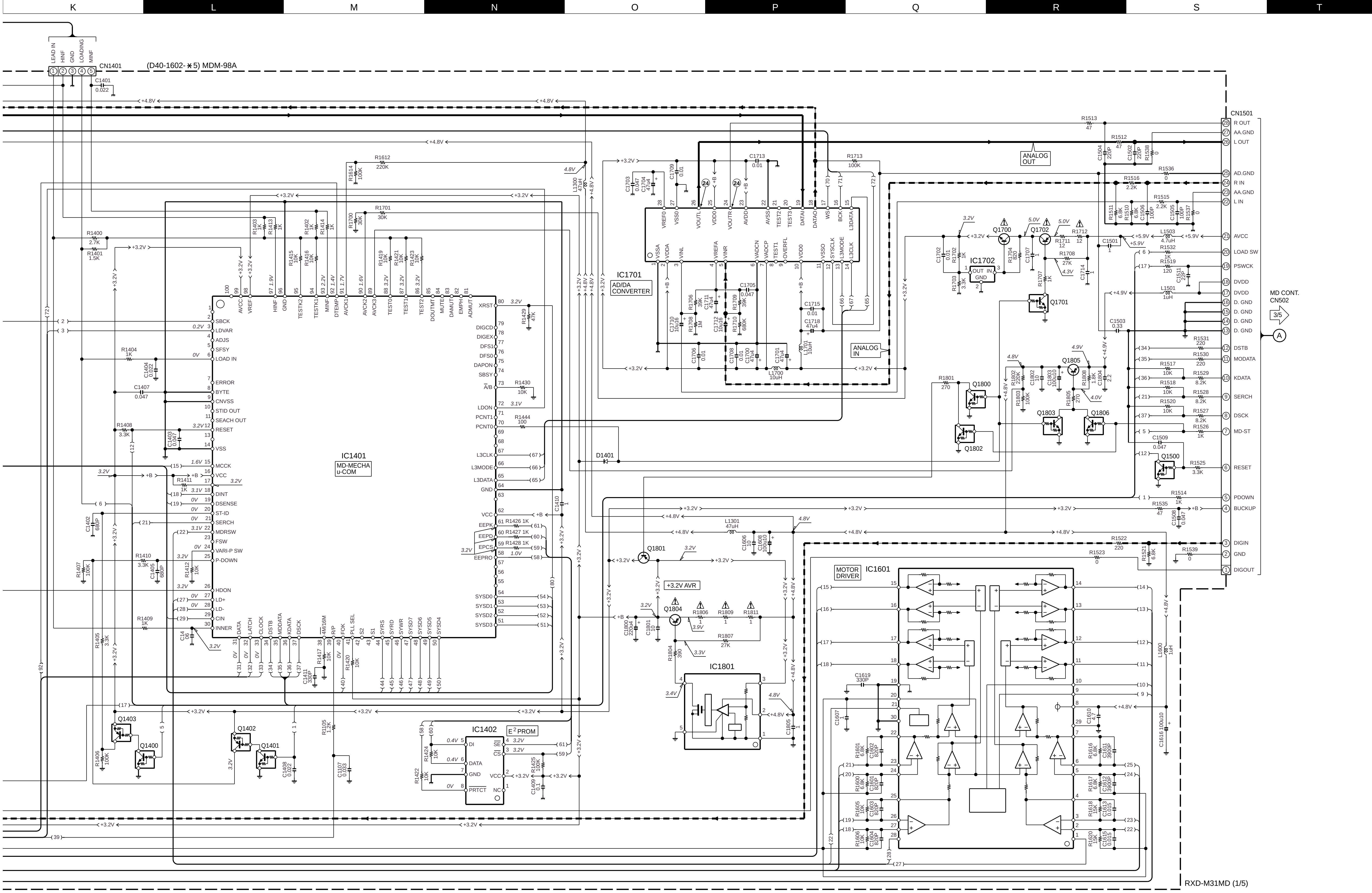
D1300,1301 : SB0209CP
D1401 : SB00703Q



| Wave form | Pin No. |
|---|---|
| ① | 1 |
| ⑥ | 77 |
| ⑦ | 76 |
| ⑧ | 47 |
| ⑨ | 75 |
| ⑩ | 25 |
| ⑬ | 83 |
| ⑭ | 82 |
| ⑰ | 70 |
| ⑱ | 74 |
| ⑲ | 73 |
| ⑳ | 71 |
| ㉑ | 72 |
| ㉒ | 66 |
| ㉓ | 67 |

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

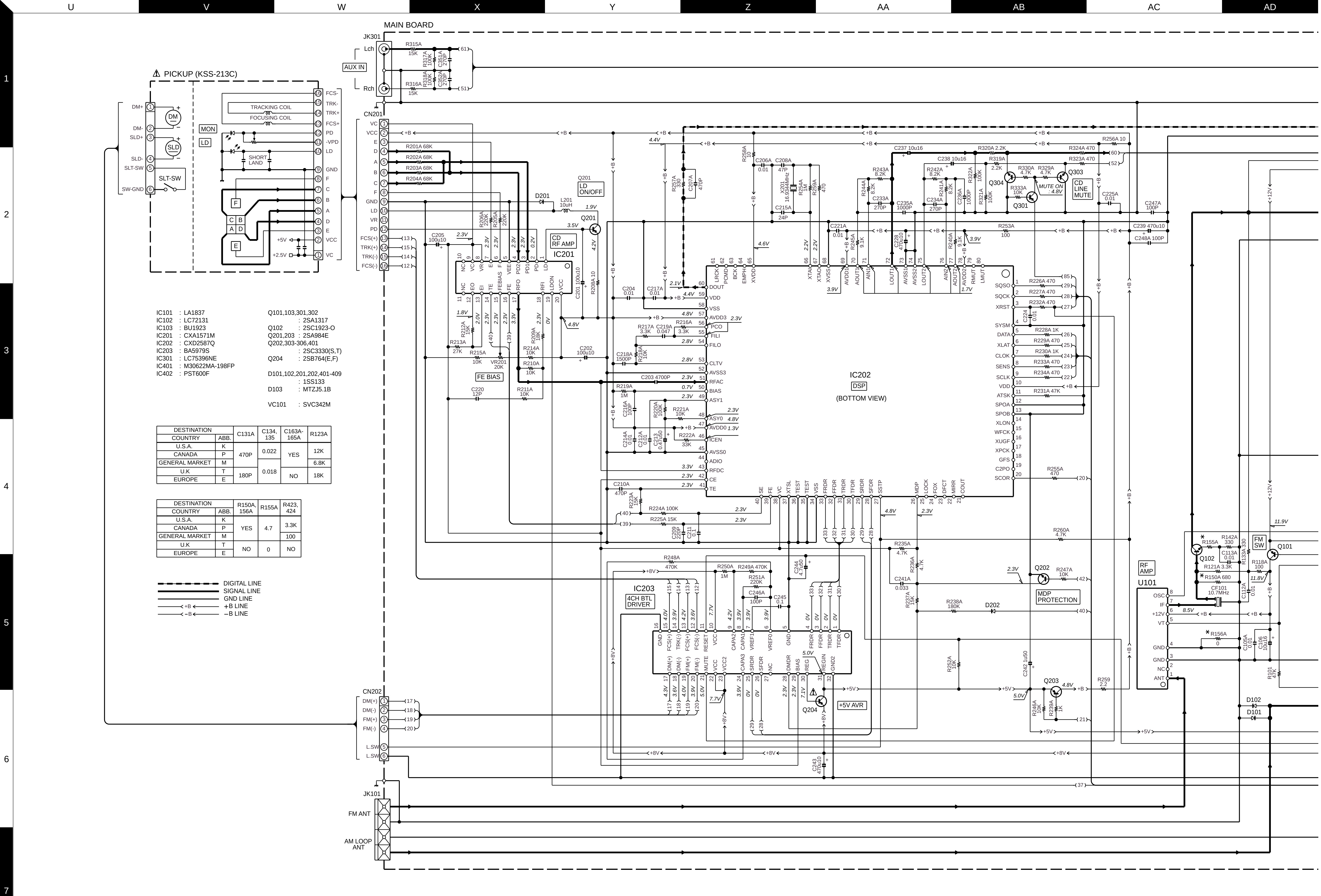
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during RECORDABLE MD PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP. The voltage followed by (REC) refers to the value during MD RECORDING.



# RXD-M31MD

KENWOOD

Y39-3212-70



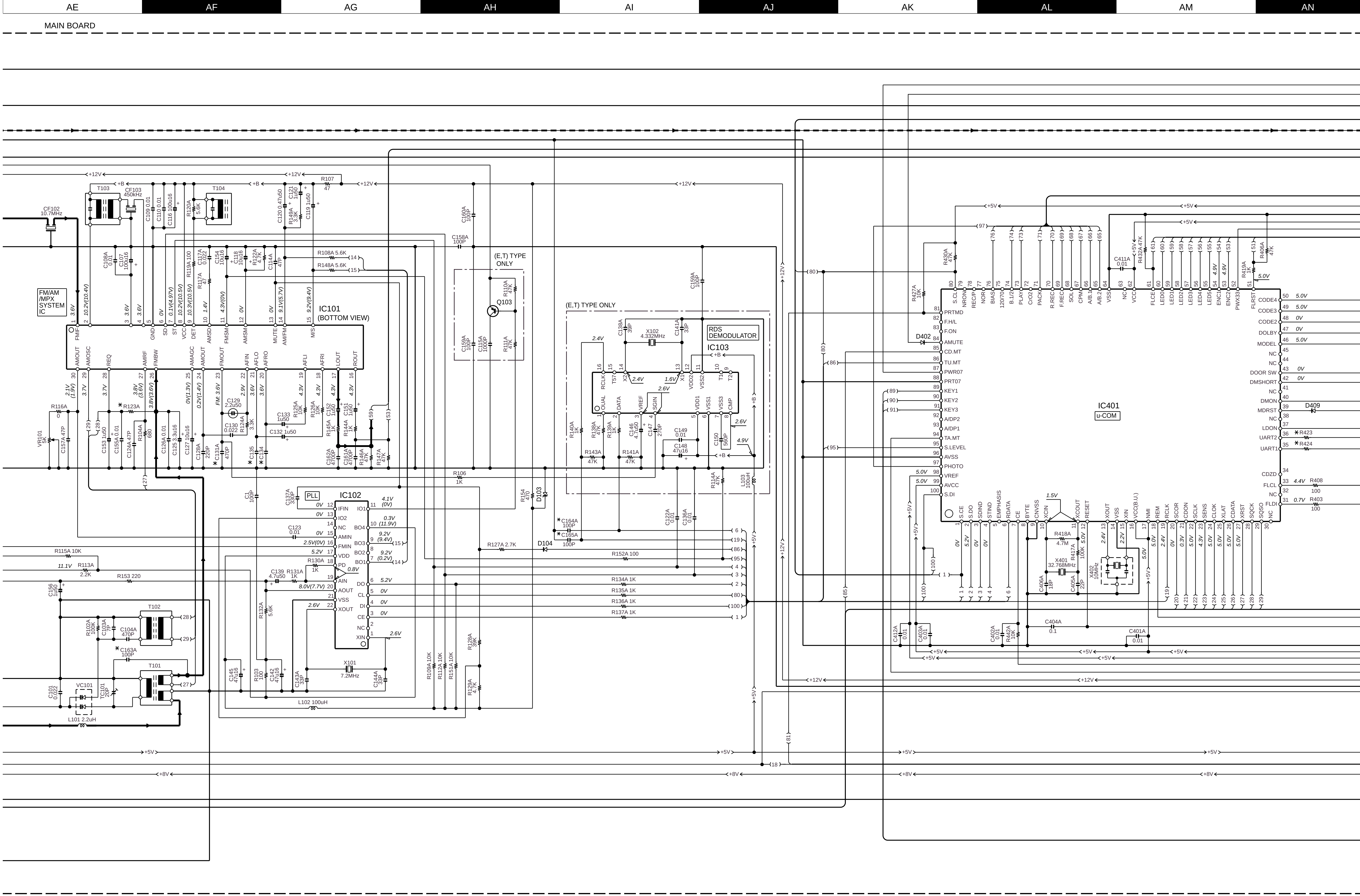
| | |
|---|---|
| IC101 | LA1837 |
| IC102 | LC72131 |
| IC103 | BU1923 |
| IC201 | CXA1571M |
| IC202 | CXD2587Q |
| IC203 | BA5979S |
| IC301 | LC75396NE |
| IC401 | M30622MA-198FP |
| IC402 | PST600F |

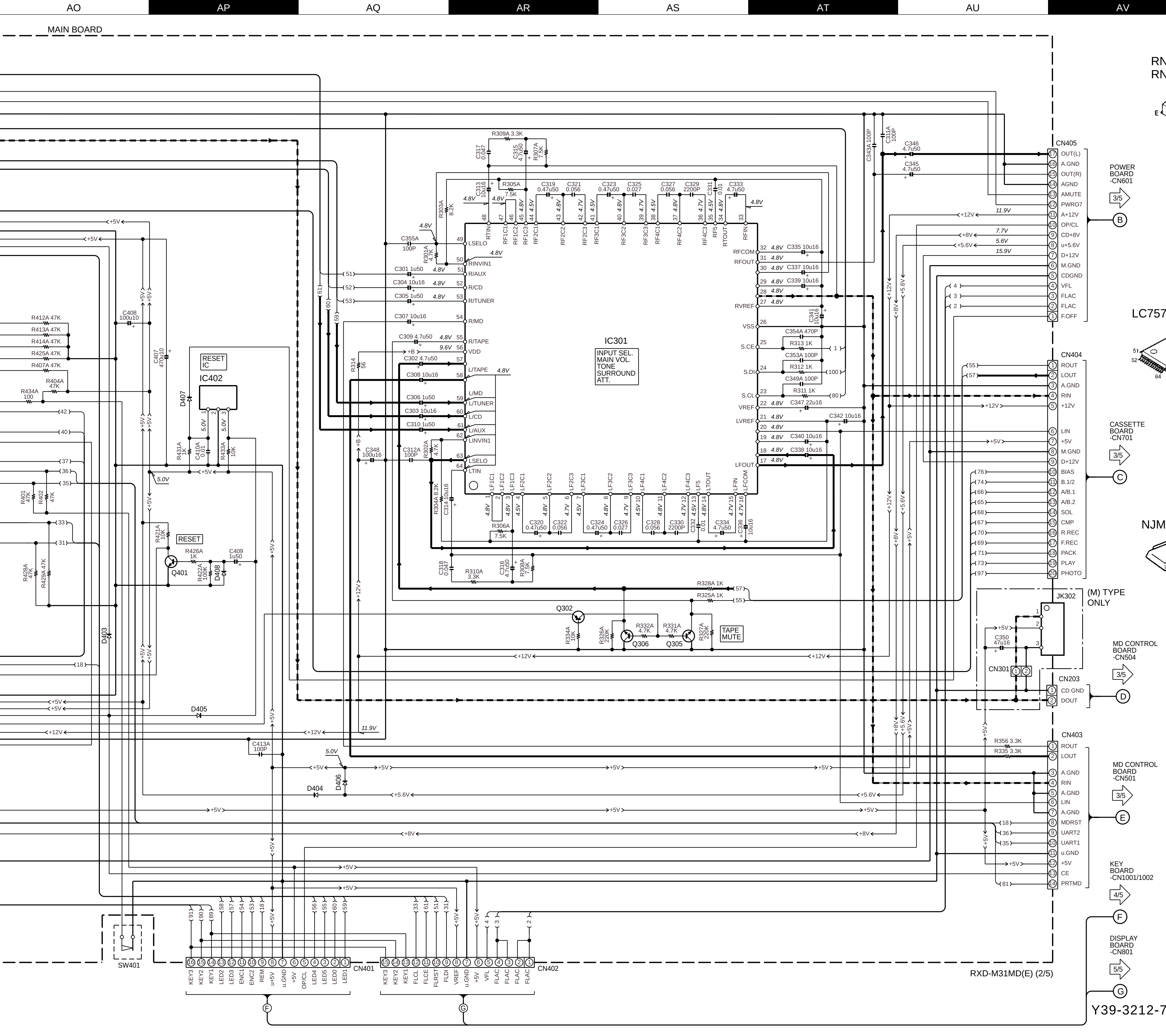
| | |
|---|---|
| Q101,103,301,302 | 2SA1317 |
| Q102 | 2SC1923-O |
| Q201,203 | 2SA984E |
| Q202,303-306,401 | 2SC3330(S,T) |
| Q204 | 2SB764(E,F) |
| D101,102,201,202,401-409 | 1SS133 |
| D103 | MTZJ5.1B |
| VC101 | SVC342M |

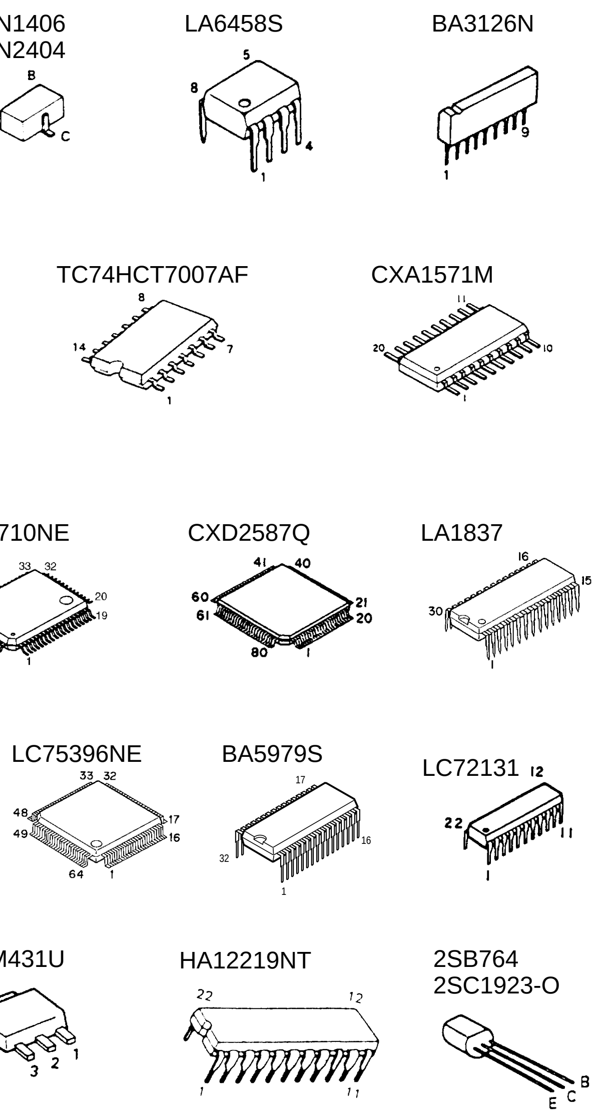
| DESTINATION | | C131A | C134, 135 | C163A-165A | R123A |
|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | |
| U.S.A. | K | 470P | 0.022 | YES | 12K |
| CANADA | P | | | | |
| GENERAL MARKET | M | | 0.018 | | 6.8K |
| U.K | T | 180P | | NO | 18K |
| EUROPE | E | | | | |

| DESTINATION | | R150A, 156A | R155A | R423, 424 |
|---|---|---|---|---|
| COUNTRY | ABB. | | | |
| U.S.A. | K | YES | 4.7 | 3.3K |
| CANADA | P | | | |
| GENERAL MARKET | M | | | 100 |
| U.K | T | NO | 0 | NO |
| EUROPE | E | | | |

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE


AE
AF
AG
AH
AI
AJ
AK
AL
AM
AN
MAIN BOARD
FM/AM /MPX SYSTEM IC
IC101 (BOTTOM VIEW)
FMIF
AMOSC
GND
SD
ST
VCC
DET
AMSD
FMSM
AMSM
MUTE
AM/FM
M/S
AMOUT
REQ
AMRF
FMBW
AMAGC
FMOUT
AFIN
AFLO
AFRO
AFLI
AFRI
LOUT
ROUT
T103
CF103 450kHz
T104
CF102 10.7MHz
VR101 5K
(E,T) TYPE ONLY
Q103
(E,T) TYPE ONLY
RDS DEMODULATOR
IC103
X102 4.332MHz
RCLK
QUAL
DATA
VREF
SGIN
VDD1
VSS1
VSS3
CMP
VDD2
VSS2
PLL
IC102
IFIN
IO1
IO2
NC
BO4
AMIN
FMIN
BO3
VDD
BO2
BO1
PD
AIN
AOUT
VSS
XOUT
DO
CL
DI
CE
XIN
X101 7.2MHz
L102 100uH
T102
T101
VC101
L101 2.2uH
D103
D104
IC401
u-COM
X401 32.768MHz
X402 10MHz
D402
D409
PRTMD
F.H/L
F.ON
AMUTE
CD.MT
TU.MT
PWR07
PRT07
KEY1
KEY2
KEY3
A/DP2
A/DP1
TA.MT
S.LEVEL
AVSS
PHOTO
VREF
AVCC
S.DI
S.CE
S.DO
SDIND
STIND
EMPHASIS
RDATA
CE
BYTE
CNVSS
XCIN
XCOUT
RESET
XOUT
VSS
XIN
VCC(B.U.)
NMI
REM
RCLK
SCOR
CDON
SENS
CLOK
XLAT
CDATA
XRST
SQCK
SQSO
NC
FLDI
FLCL
CDZD
UART1
UART2
LDON
MDRST
DMON
DMSHORT
DOOR SW
MODEL
DOLBY
CODE2
CODE3
CODE4
FLRST
PWX33
ENC2
ENC1
LED5
LED4
LED3
LED2
LED1
LED0
FLCE
VCC
NC
VSS
A/B.2
A/B.1
CPM
SOL
F.REC
R.REC
PACK
CrO2
PLAY
B.1/2
120/70
BIAS
NOR
RECP
NRON
S.CL
+12V
+5V
+8V
+B
R107 47
R108A 5.6K
R148A 5.6K
R106 1K
R127A 2.7K
R152A 100
R134A 1K
R135A 1K
R136A 1K
R137A 1K
R115A 10K
R113A 2.2K
R153 220
R408 100
R403 100
R423
R424
R418A 4.7M





**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

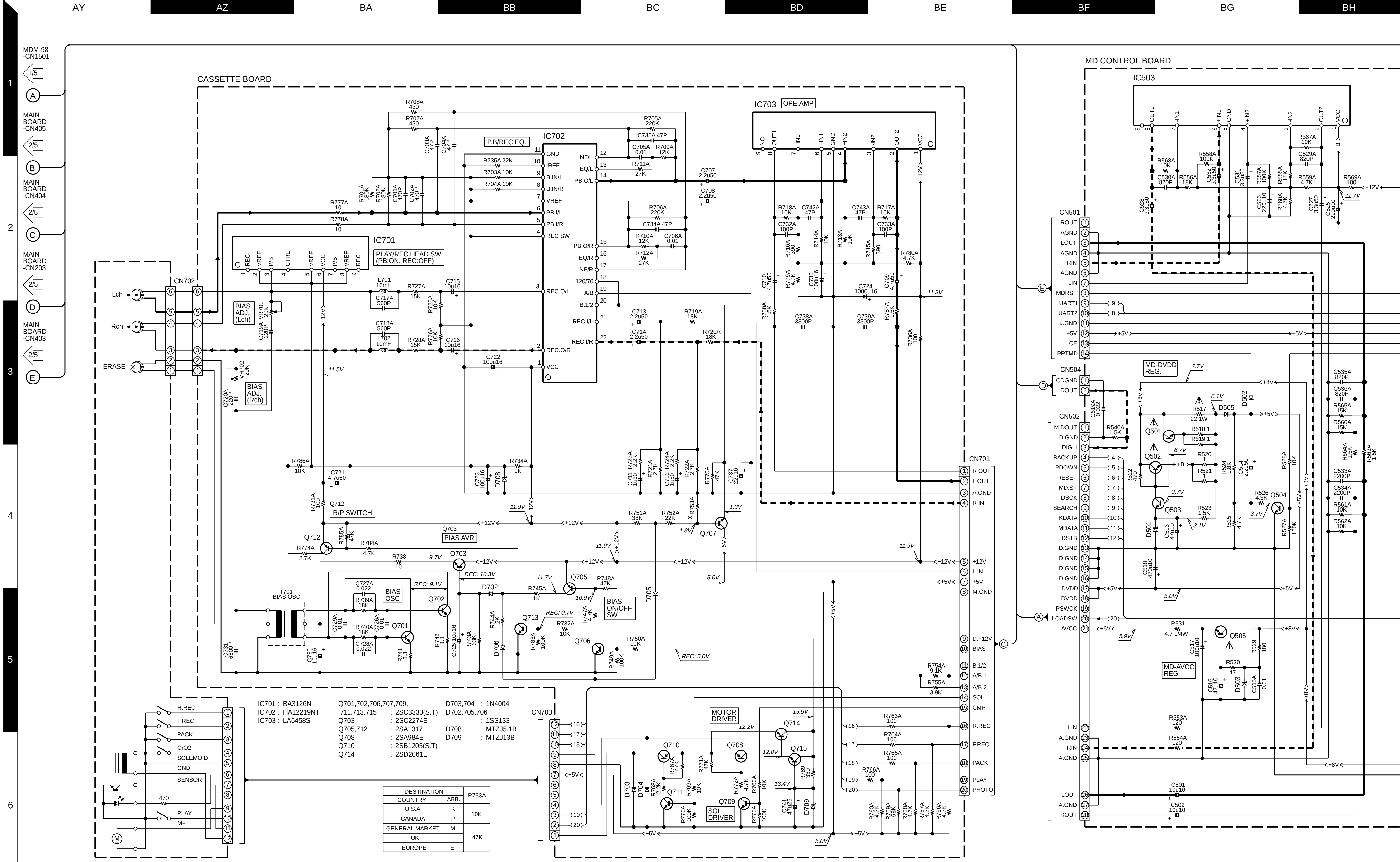
The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

| MODE | CARRIER | MODULATION | | ANT INPUT |
|---|---|---|---|---|
| | | FREQUENCY | DEVIATION | |
| FM | 98MHz | 1kHz | STEREO 67.5kHz 7.5kHz(Pilot) | 60dB |
| AM | 1000(999)kHz | 400Hz | MONO 30% MOD | 60dB |

# RXD-M31MD

**KENWOOD**

Y39-3212-70



IC701 : BA3126N
IC702 : HA12219NT
IC703 : LA6458S

Q701,702,706,707,709, 711,713,715 : 2SC3330(S.T)
Q703 : 2SC2274E
Q705,712 : 2SA1317
Q708 : 2SA984E
Q710 : 2SB1205(S.T)
Q714 : 2SD2061E

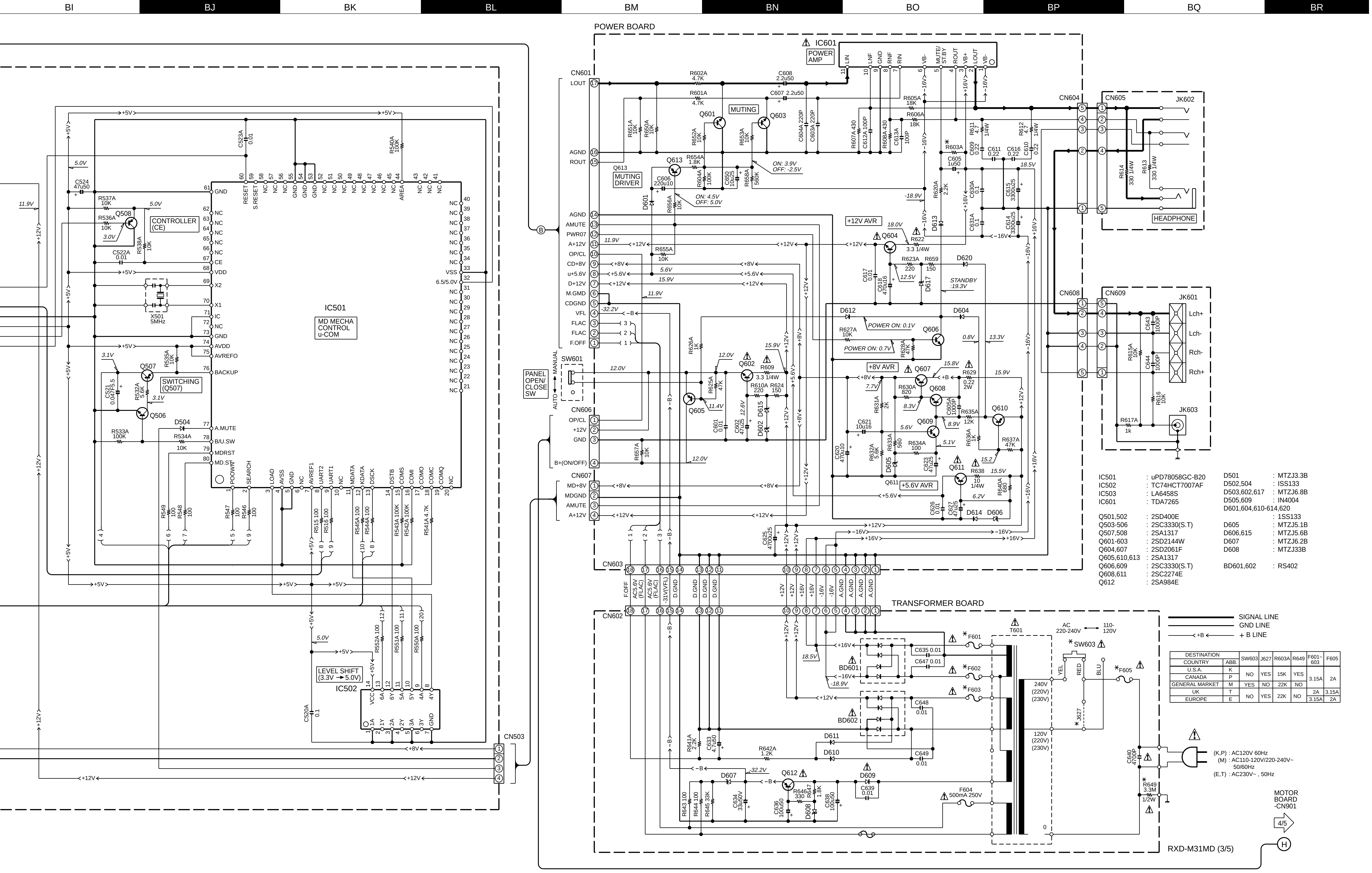
D703,704 : 1N4004
D702,705,706 : 1SS133
D708 : MTZJ5.1B
D709 : MTZJ13B

| DESTINATION | | R753A |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K | 10K |
| CANADA | P | |
| GENERAL MARKET | M | 47K |
| UK | T | |
| EUROPE | E | |

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.



IC501 : uPD78058GC-B20
IC502 : TC74HCT7007AF
IC503 : LA6458S
IC601 : TDA7265

Q501,502 : 2SD400E
Q503-506 : 2SC3330(S.T)
Q507,508 : 2SA1317
Q601-603 : 2SD2144W
Q604,607 : 2SD2061F
Q605,610,613 : 2SA1317
Q606,609 : 2SC3330(S.T)
Q608,611 : 2SC2274E
Q612 : 2SA984E

D501 : MTZJ3.3B
D502,504 : ISS133
D503,602,617 : MTZJ6.8B
D505,609 : IN4004
D601,604,610-614,620 : 1SS133
D605 : MTZJ5.1B
D606,615 : MTZJ5.6B
D607 : MTZJ6.2B
D608 : MTZJ33B

BD601,602 : RS402

SIGNAL LINE
GND LINE
<+B< + B LINE

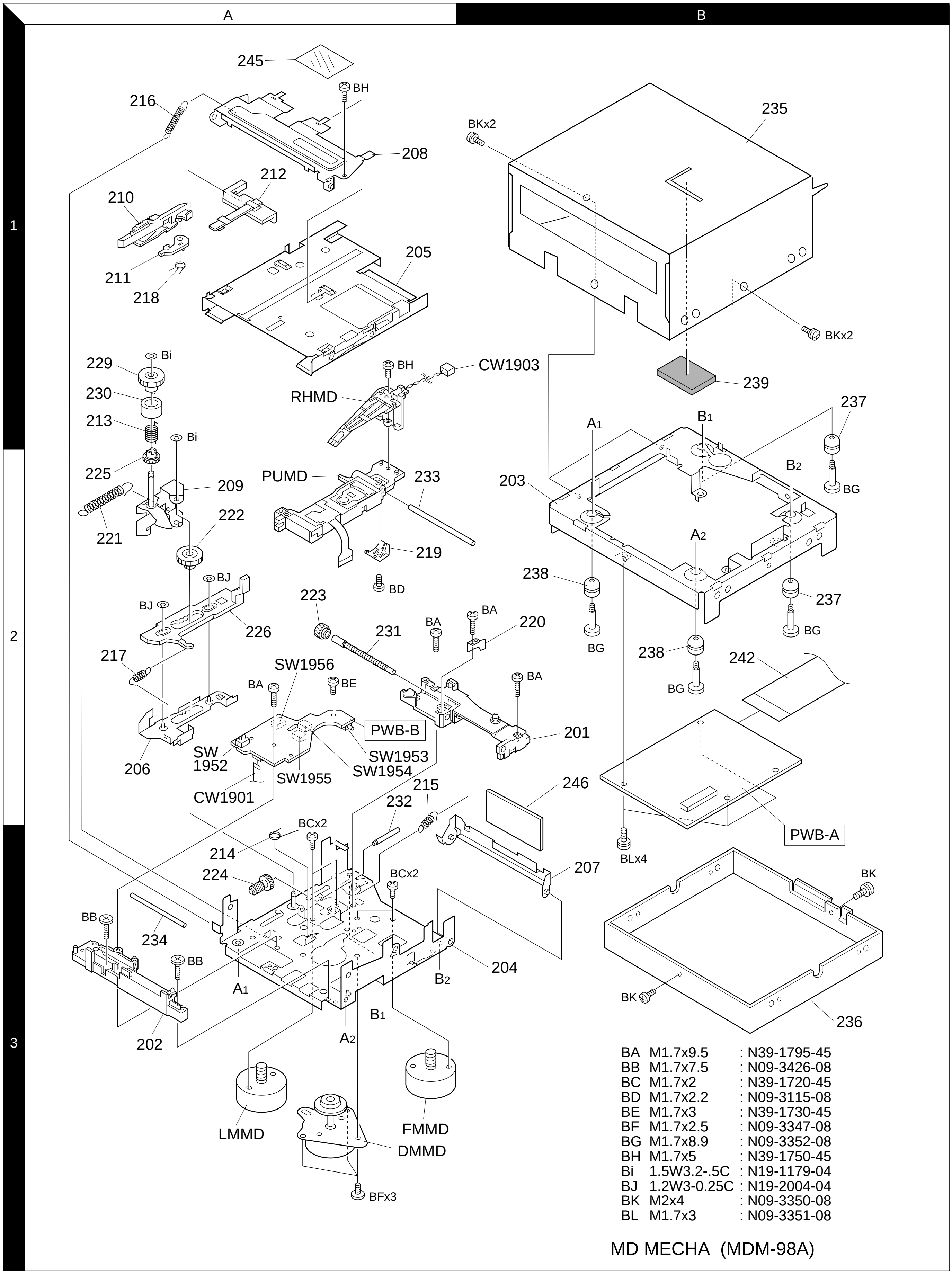
| DESTINATION | | SW603 | J627 | R603A | R649 | F601~603 | F605 |
|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | |
| U.S.A. | K | NO | YES | 15K | YES | 3.15A | 2A |
| CANADA | P | | | | | | |
| GENERAL MARKET | M | YES | NO | 22K | NO | | |
| UK | T | NO | YES | 22K | NO | 2A | 3.15A |
| EUROPE | E | | | | | 3.15A | 2A |

Y39-3212-70

# RXD-M31MD

**KENWOOD**

# EXPLODED VIEW (MD MECHANISM)



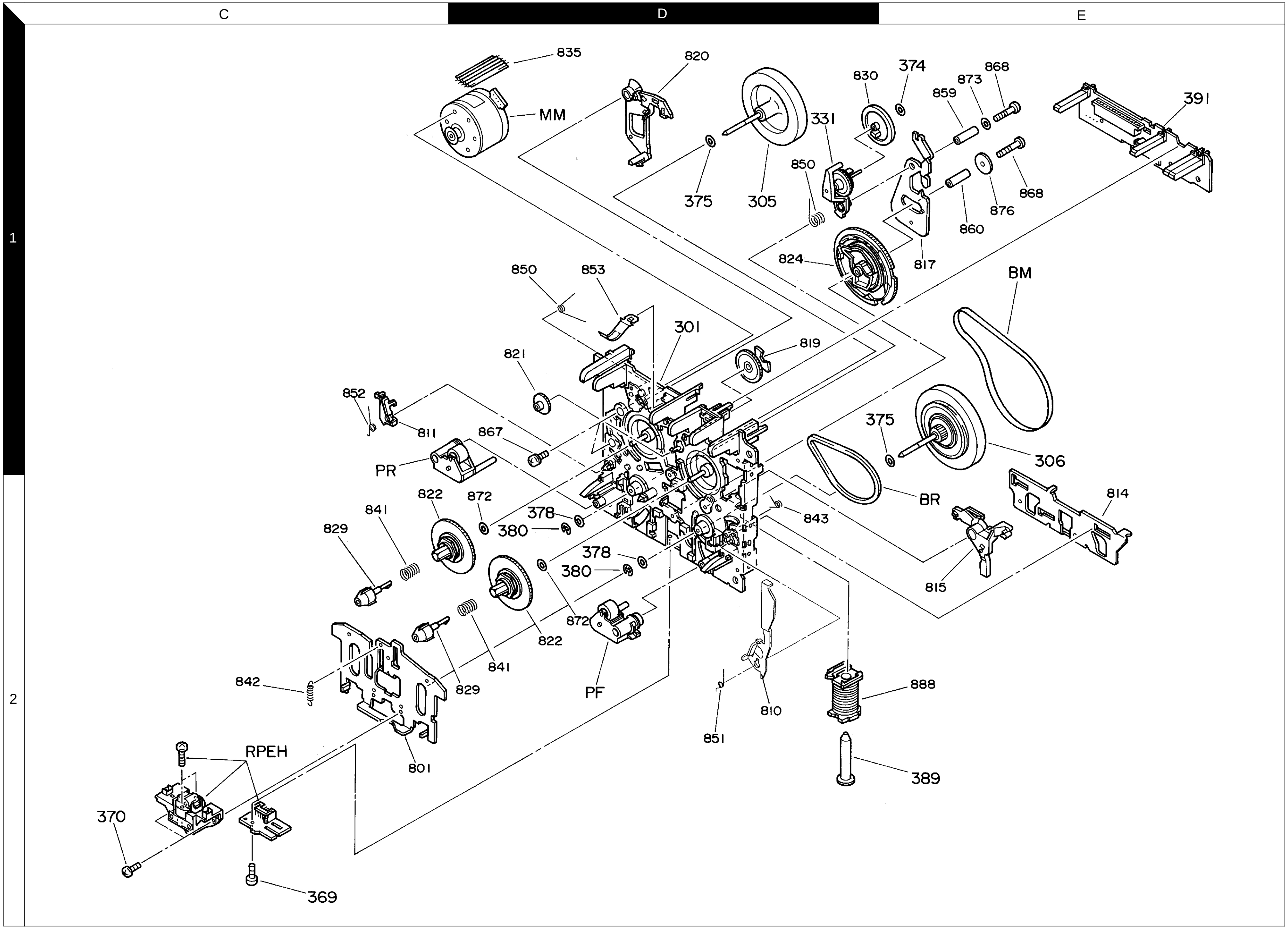
| | | |
|---|---|---|
| BA | M1.7x9.5 | : N39-1795-45 |
| BB | M1.7x7.5 | : N09-3426-08 |
| BC | M1.7x2 | : N39-1720-45 |
| BD | M1.7x2.2 | : N09-3115-08 |
| BE | M1.7x3 | : N39-1730-45 |
| BF | M1.7x2.5 | : N09-3347-08 |
| BG | M1.7x8.9 | : N09-3352-08 |
| BH | M1.7x5 | : N39-1750-45 |
| Bi | 1.5W3.2-.5C | : N19-1179-04 |
| BJ | 1.2W3-0.25C | : N19-2004-04 |
| BK | M2x4 | : N09-3350-08 |
| BL | M1.7x3 | : N09-3351-08 |

MD MECHA (MDM-98A)

Parts with exploded view numbers larger than 700 are not supplied.

# RXD-M31MD

## EXPLODED VIEW (CASSETTE DECK MECHANISM)

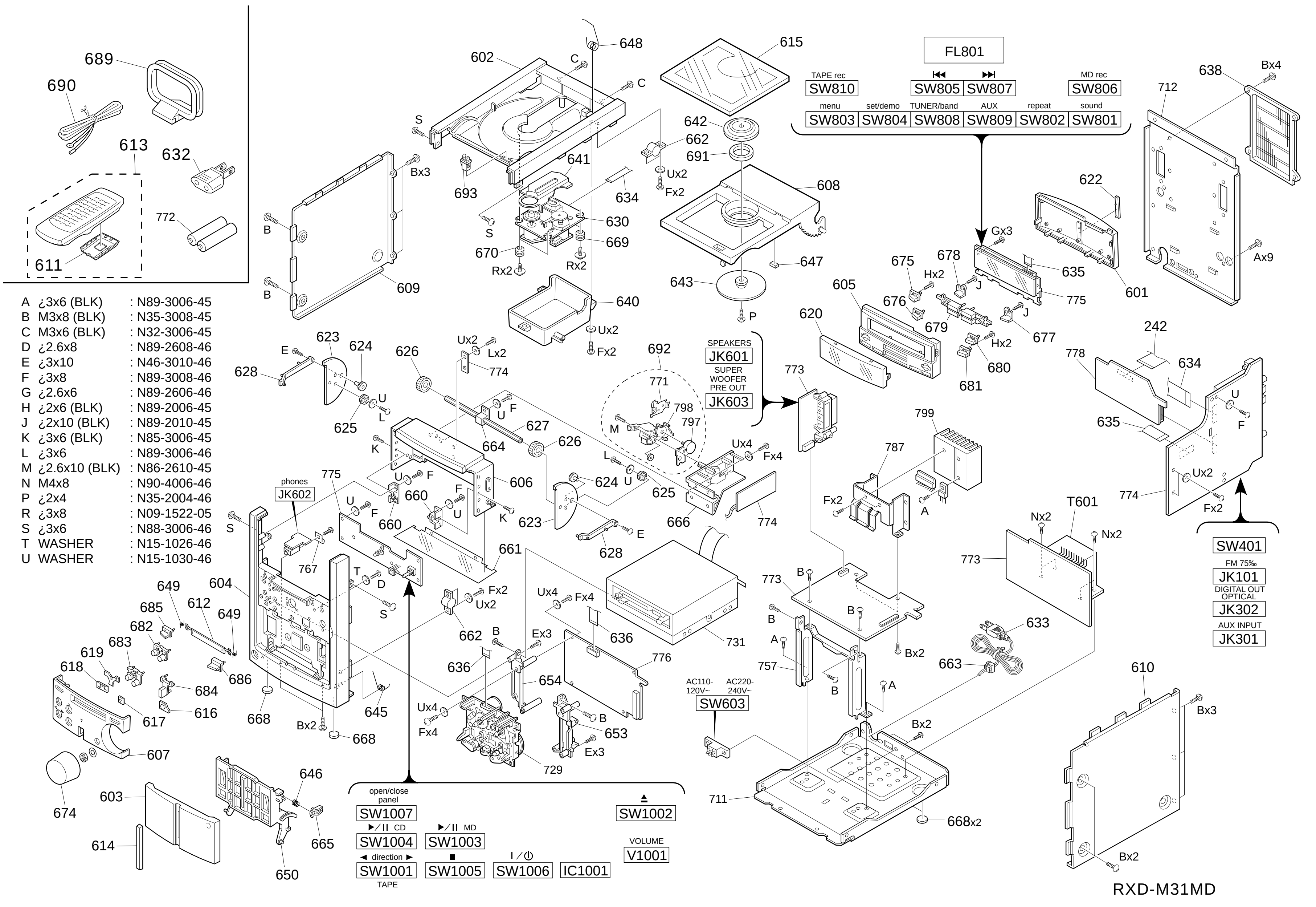


Parts with exploded view numbers larger than 700 are not supplied.

# RXD-M31MD

## EXPLODED VIEW (UNIT)

Parts with exploded view numbers larger than 700 are not supplied.



| | | |
|---|---|---|
| A | ¿3x6 (BLK) | : N89-3006-45 |
| B | M3x8 (BLK) | : N35-3008-45 |
| C | M3x6 (BLK) | : N32-3006-45 |
| D | ¿2.6x8 | : N89-2608-46 |
| E | ¿3x10 | : N46-3010-46 |
| F | ¿3x8 | : N89-3008-46 |
| G | ¿2.6x6 | : N89-2606-46 |
| H | ¿2x6 (BLK) | : N89-2006-45 |
| J | ¿2x10 (BLK) | : N89-2010-45 |
| K | ¿3x6 (BLK) | : N85-3006-45 |
| L | ¿3x6 | : N89-3006-46 |
| M | ¿2.6x10 (BLK) | : N86-2610-45 |
| N | M4x8 | : N90-4006-46 |
| P | ¿2x4 | : N35-2004-46 |
| R | ¿3x8 | : N09-1522-05 |
| S | ¿3x6 | : N88-3006-46 |
| T | WASHER | : N15-1026-46 |
| U | WASHER | : N15-1030-46 |

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

## RXD-M31MD

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|
| 601 | 1H | ✻ | A21-3800-08 | PANEL COVER 109-03311-101 | | |
| 602 | 1G | ✻ | A02-2940-08 | TOP CABINET 103-03310-0909 | | |
| 603 | 2F | ✻ | A02-2945-08 | CASS DOOR COVER,108-03311-101 | | |
| 604 | 2F | ✻ | A60-1745-08 | FRONT CABINET 101-03310-101 | | |
| 605 | 1G | | A21-3779-08 | TUNING PANEL 109-03312-001 | | |
| 606 | 2G | ✻ | A21-3801-08 | TOP PANEL 109-03313-1266 | | |
| 607 | 2F | ✻ | A21-3806-08 | CONTROL PANEL 109-03314-2266 | KP | |
| 607 | 2F | ✻ | A21-3807-08 | CONTROL PANEL 109-03314-4266 | MTE | |
| 608 | 1G | ✻ | A52-0375-08 | CD DOOR 113-03310-072 | | |
| 609 | 1F | ✻ | A50-1332-08 | METAL PLATE (L) 180-03311-0909 | | |
| 610 | 2H | ✻ | A50-1337-08 | METAL PLATE (R) 180-03312-0909 | | |
| 611 | 1F | | A09-1114-08 | BATTERY COVER | | |
| 612 | 2F | ✻ | A52-0376-08 | MD DOOR 113-03311-001 | | |
| 613 | 1F | ✻ | A70-1241-05 | REMOTE CONTROL182-03310-001 | KPM | |
| 613 | 1F | ✻ | A70-1287-05 | REMOTE CONTROL182-03310-002 | TE | |
| 614 | 2F | | B10-3524-08 | CASS DOOR LENS 116-03310-000 | | |
| 615 | 1G | ✻ | B10-3555-08 | CD DOOR LENS 116-03311-002 | | |
| 616 | 2F | | B12-0375-08 | SENSOR LENS 117-03310-000 | | |
| 617 | 2F | | B12-0376-08 | LED LENS (MID) 117-03311-000 | | |
| 618 | 2F | | B12-0377-08 | LED LENS (TAPE) 117-03312-000 | | |
| 619 | 2F | | B12-0378-08 | LED LENS (CD/MD) 117-03313-000 | | |
| 620 | 1G | ✻ | B12-0386-08 | DISPLAY LENS 117-03314-003 | | |
| 622 | 1H | ✻ | B03-3857-08 | PLATED BAR 130-03310-087 | | |
| 623 | 1F,2G | | D13-1946-08 | GEAR A 130-03313-110 | | |
| 624 | 1F,2G | | D13-1947-08 | GEAR B 130-03313-210 | | |
| 625 | 1F,2G | | D13-1948-08 | GEAR C 130-03313-310 | | |
| 626 | 1F,2G | | D13-1949-08 | GEAR D 130-03313-410 | | |
| 627 | 1G | | D10-3905-08 | SHAFT (HEXAGON)133-03318-304 | | |
| 628 | 1F,2G | | D10-3906-08 | LEVER 138-03311-010 | | |
| 630 | 1G | | D40-1640-05 | CD MECHANISM KSM-213CDM(SONY) | | |
| ⚠ 632 | 1F | | E03-0115-05 | AC PLUG ADAPTOR | M | |
| ⚠ 633 | 2H | | E30-2928-08 | AC POWER CORD 023-60020-005 | ME | |
| ⚠ 633 | 2H | | E30-2929-08 | AC POWER CORD 023-60040-008 | KP | |
| ⚠ 633 | 2H | | E30-2930-08 | AC POWER CORD 023-60060-003 | T | |
| 634 | 1G,1H | | E35-2429-08 | FLAT CABLE (16P)037-45281-164 | | |
| 635 | 1H | | E35-2430-08 | FLAT CABLE (15P) 037-55271-155 | | |
| 636 | 2G | | E35-2431-08 | FLAT CABLE (12P) 037-55600-125 | | |
| 638 | 1H | | F07-1685-18 | HS COVER (BLK) 129-03319-610 | | |
| 640 | 1G | | F07-1687-08 | CD COVER 138-03313-010 | | |
| 641 | 1G | | F07-1688-08 | CD COVER(BLK)ABS,161-00213-202 | | |
| 642 | 1G | | J19-6023-08 | CD MAGNET COVER(TOP) 161-00213- | | |
| 643 | 1G | | J11-0850-08 | CD MAGNET COVER(BTM) 161-00213- | | |
| 645 | 2F | | G09-0671-08 | CASS DOOR SPR 133-03314-309 | | |
| 646 | 2F | | G09-0672-08 | DOOR LOCKER SPR,133-03319-335 | | |
| 647 | 1G | | G11-2485-08 | RUBBER (10X5X3) 136-10530-100 | | |
| 648 | 1G | | G09-0674-08 | CD DOOR SPRING 162-03311-314 | | |
| 649 | 2F | ✻ | G09-0675-08 | MD DOOR SPRING 133-03319-302 | | |
| 650 | 2F | | A13-3147-08 | BRACKET (CASS DOOR) 129-03310-0 | | |
| 653 | 2G | | A13-3150-08 | BRACKET (CASS R) 129-03317-010 | | |
| 654 | 2G | | A13-3151-08 | BRACKET (CASS L) 129-03317-110 | | |
| 660 | 2F | | A13-3152-08 | MOUNTING BRACKET, 129-03319-510 | | |
| 661 | 2G | | F07-1686-18 | PVC COVER (BLACK), 125-03310-010 | | |

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|---|---|---|---|---|---|---|
| 662 | 1G,2G | ✻ | D39-0345-08 | DAMPER SET 130-03313-010 | | |
| ⚠ 663 | 2H | | J42-0343-08 | POWER CORD BUSH 130-00000-001 | KP | |
| ⚠ 663 | 2H | | J42-0344-08 | POWER CORD BUSH 130-00000-002 | MTE | |
| 664 | 1G | | D32-0363-08 | STOPPER 130-03312-010 | | |
| 665 | 2F | | D32-0364-08 | CASSETTE LOCKER 130-03318-010 | | |
| 666 | 2G | | A13-3153-08 | MOUNTING BRT(PCB/CD) 133-30331- | | |
| 668 | 2F,2H | | J02-1456-08 | RUBBER FOOT (12.5X3.5) 136-8003 | | |
| 669 | 1G | | J02-1454-08 | SOFT RUBBER 161-07213-001 | | |
| 670 | 1G | | J02-1455-08 | HARD RUBBER 161-07213-101 | | |
| 674 | 2F | ✻ | K29-7690-08 | KNOB (VOLUME) 127-03311-072 | | |
| 675 | 1H | ✻ | K29-7691-08 | KNOB (TAPE REC) 128-03310-002 | | |
| 676 | 1H | ✻ | K29-7692-08 | KNOB (MENU) 128-03310-021 | | |
| 677 | 1H | ✻ | K29-7693-08 | KNOB (REPEAT) 128-03310-102 | | |
| 678 | 1H | ✻ | K29-7694-08 | KNOB (SET/DEMO) 128-03310-202 | | |
| 679 | 1H | ✻ | K29-7695-08 | KNOB (FF/TUNER/AUX) 128-03310-3 | | |
| 680 | 1H | ✻ | K29-7696-08 | KNOB (MD REC) 128-03310-402 | | |
| 681 | 1H | ✻ | K29-7697-08 | KNOB (SOUND) 128-03310-421 | | |
| 682 | 2F | ✻ | K29-7698-08 | KNOB (MD/CD PLAY) 128-03312-002 | | |
| 683 | 2F | ✻ | K29-7699-08 | KNOB (TAPE/STOP) 128-03312-102 | | |
| 684 | 2F | ✻ | K29-7700-08 | KNOB (ON/STANDBY) 128-03312-272 | | |
| 685 | 2F | ✻ | K29-7701-08 | KNOB (PANEL BUTTON) 128-03312-3 | | |
| 686 | 2F | ✻ | K29-7702-08 | KNOB (EJECT) 128-03312-401 | | |
| 689 | 1F | | T90-0846-08 | AM LOOP ANTENNA, 015-82100-001 | | |
| 690 | 1F | | T90-0801-05 | LEAD ANTENNA 064-10001-003 | | |
| 691 | 1G | | T99-0624-08 | CD MAGNET 161-00090-030 | | |
| 692 | 1G | | T42-0953-08 | GEAR MOTOR 158-03310-001 | | |
| 693 | 1G | | D32-0365-08 | CD LOCKER PLASTIC, 130-10618-40 | | |
| - | | | A13-3149-08 | BRACKET (FL) 129-03315-010 | | |
| - | | | B46-0310-03 | WARRANTY CARD 155-13813-0266 | TE | |
| - | | | B46-0328-03 | WARRANTY CARD 155-04711-0266 | K | |
| - | | | B46-0347-03 | WARRANTY CARD 155-11811-2266 | P | |
| - | | ✻ | B58-1643-04 | CAUTION CARD (CASS) 155-13310-1 | | |
| - | | | B59-1434-08 | CAUTION (PANEL) 155-13310-002 | TE | |
| - | | | B59-1435-08 | CAUTION (PANEL) 155-13310-002 | KPM | |
| - | | ✻ | B60-4129-08 | INST BOOKLET 151-13812-0266 | MT | |
| - | | ✻ | B60-4218-08 | INST MANUAL 152-13811-0266 | KP | |
| - | | ✻ | B60-4220-08 | INST BOOKLET 152-13813-0266 | PE | |
| - | | ✻ | B60-4221-08 | INST MANUAL 152-13814-0266 | M | |
| - | | ✻ | B60-4222-08 | INST MANUAL 152-13815-0266 | E | |
| - | | ✻ | B60-4223-08 | INST MANUAL 152-13816-0266 | E | |
| - | | ✻ | B60-4224-08 | INST MANUAL 152-13817-0266 | E | |
| - | | ✻ | B60-4225-08 | INST MANUAL 152-13818-0266 | ME | |
| - | | | H10-7611-08 | POLYFOAM FIXTURE, 149-03310-000 | | |
| - | | | H25-1658-08 | POLYBAG 18X24 150-18024-510 | | |
| - | | ✻ | H50-3323-08 | ITEM CARTON CASE 151-13811-1266 | KP | |
| - | | ✻ | H50-3324-08 | ITEM CARTON CASE 151-13812-1266 | M | |
| - | | ✻ | H50-3325-08 | ITEM CARTON CASE 151-13814-1266 | T | |
| - | | ✻ | H50-3326-08 | ITEM CARTON CASE 151-13815-1266 | E | |
| A | | | N89-3006-45 | SCREW 3X6 BLK BIND TAPTITE | | |
| B | | | N35-3008-45 | SCREW 3X8 BLK BIND MACHIN | | |
| C | | | N32-3006-45 | SCREW 3X6 BLK FLAT MACHIN | | |
| D | | | N89-2608-46 | SCREW 2.6X8 BIND TAPTITE | | |
| E | | | N46-3010-46 | SCREW 3X10 PAN TAPPING | | |
| F | | | N89-3008-46 | SCREW 3X8 BIND TAPTITE | | |
| H | | | N89-2006-45 | SCREW 2X6 BLK BIND TAPTITE | | |

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|---|---|---|---|---|---|---|
| J | | | N89-2008-45 | SCREW 2X8 BLK BIND TAPTITE | | |
| K | | | N85-3006-45 | SCREW 3X8 BLK FLAT TAPTITE(S) | | |
| L | | | N89-3006-46 | SCREW 3X6 BIND TAPTITE | | |
| N | | | N90-4008-41 | SCREW 4X8 TP MACHIN | | |
| P | | | N35-2004-46 | SCREW 2X4 BIND MACHIN | | |
| R | | | N09-1522-05 | SCREW 3X8 10mmTP TAPPING | | |
| S | | | N88-3006-46 | SCREW 3X6 FLAT TAPTITE | | |
| T | | | N15-1026-46 | FLAT WASHER 2.9X7.5X0.5 | | |
| ⚠ T601 | 2H | | L07-2771-08 | POWER TRANSFORMER0 18-03817-572 | ET | |
| ⚠ T601 | 2H | | L07-2772-08 | POWER TRANSFORMER0 18-03817-522 | KP | |
| ⚠ T601 | 2H | | L07-2773-08 | POWER TRANSFORMER0 18-03817-562 | M | |
| U | | | N15-1030-46 | FLAT WASHER 3.3X8.0X0.5 | | |

## ELECTRICS PARTS

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|
| D1031 | | | B30-2558-08 | LED LAMP 019-10000-001 | | |
| D1032-35 | | | B30-2500-08 | LED 019-12000-110 | | |
| C1 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C101 | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| C103A | | | CC73FSL1H070D | CHIP C 7.0PF D | | |
| C104A | | | CK73FB1H471K | CHIP C 470PF K | | |
| C105A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C106 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C107 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C108A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C109,110 | | | CK45FB1H103Z | CERAMIC 0.010UF Z | | |
| C112A,113A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C114A | | | CC73FSL1H470J | CHIP C 47PF J | | |
| C115A | | | CK73FB1H102J | CHIP C 1000PF J | ET | |
| C116 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C117A | | | CK73FB1E223K | CHIP C 0.022UF K | | |
| C118 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C119 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C120 | | | CE04KW1HR47M | ELECTRO 0.47UF 50WV | | |
| C121 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C122A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C123 | | | CK45FB1H103Z | CERAMIC 0.010UF Z | | |
| C124A | | | CC73FSL1H470J | CHIP C 47PF J | | |
| C125 | | | CE04KW1H3R3M | ELECTRO 3.3UF 50WV | | |
| C126A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C127 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C128A | | | CK73FB1H221J | CHIP C 220PF J | | |
| C129 | | | CE04HW1H2R2M | NP-ELEC 2.2UF 50WV | | |
| C130 | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| C131A | | | CK73FB1H181J | CHIP C 180PF J | ET | |
| C131A | | | CK73FB1H471K | CHIP C 470PF K | KPM | |
| C132,133 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C134,135 | | | CQ93FMG1H183J | MYLAR 0.018UF J | MET | |
| C134,135 | | | CQ93FMG1H223J | MYLAR 0.022UF J | KP | |
| C136A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C137A | | | CC73FCH1H331J | CHIP C 330PF J | | |
| C138A | | | CC73FCH1H390J | CHIP C 39PF J | ET | |
| C139 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C141A | | | CC73FCH1H330J | CHIP C 33PF J | ET | |
| C142 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C143A,144A | | | CC73FCH1H330J | CHIP C 33PF J | | |

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|---|---|---|---|---|---|---|
| C145 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C146 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | ET | |
| C147 | | | CC45FSL1H271J | CERAMIC 270PF J | ET | |
| C148 | | | CE04KW1C470M | ELECTRO 47UF 16WV | ET | |
| C149 | | | CK45FB1H103Z | CERAMIC 0.010UF Z | ET | |
| C150 | | | CC45FSH1H561J | CERAMIC 560PF J | ET | |
| C151-153 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C154 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C155A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C156 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C157A | | | CC73FSL1H470J | CHIP C 47PF J | | |
| C158A | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C159A | | | CC73FSL1H101J | CHIP C 100PF J | ET | |
| C160A | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C161A,162A | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C163A-165A | | | CC73FSL1H101J | CHIP C 100PF J | KPM | |
| C201,202 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C203 | | | CK45FB1H472K | CERAMIC 4700PF K | | |
| C204 | | | CK45FB1H103Z | CERAMIC 0.010UF Z | | |
| C205 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C206A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C207A | | | CK73FB1H471K | CHIP C 470PF K | | |
| C208A | | | CC73FSL1H470J | CHIP C 47PF J | | |
| C209 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C210A | | | CK73FB1H471K | CHIP C 470PF K | | |
| C211A | | | CK45FB1H104Z | CERAMIC 0.10UF Z | | |
| C212A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C213 | | | CE04KW1HR47M | ELECTRO 0.47UF 50WV | | |
| C214A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C215A | | | CC73FCH1H240J | CHIP C 24PF J | | |
| C216A | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C217A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C218A | | | CK73FB1H152K | CHIP C 1500PF K | | |
| C219A | | | CK73FB1H473K | CHIP C 0.047UF K | | |
| C220 | | | CC45FSL1H120J | CERAMIC 12PF J | | |
| C221A | | | CK45FB1H103Z | CERAMIC 0.010UF Z | | |
| C224 | | | CK45FB1H103Z | CERAMIC 0.010UF Z | | |
| C225A | | | CK73FB1E103K | CHIP C 0.010UF K | | |
| C228 | | | CE04KW1A471M | ELECTRO 470UF 10WV | | |
| C233A,234A | | | CK73FB1H271J | CHIP C 270PF J | | |
| C235A,236A | | | CK73FB1H102J | CHIP C 1000PF J | | |
| C237,238 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C239 | | | CE04KW1A471M | ELECTRO 470UF 10WV | | |
| C241A | | | CK73FB1E333K | CHIP C 0.033UF K | | |
| C242 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C243 | | | CE04KW1A471M | ELECTRO 470UF 10WV | | |
| C244 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C245 | | | CK45FB1H104Z | CERAMIC 0.10UF Z | | |
| C246A-248A | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C301 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C302 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C303,304 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C305,306 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C307,308 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C309 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |

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|---|---|---|---|---|---|---|---|---|
| C310 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C311A,312A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C313,314 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C315,316 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C317,318 | | | CK45FB1H473Z | CERAMIC | 0.047UF | Z | | |
| C319,320 | | | CE04KW1HR47M | ELECTRO | 0.47UF | 50WV | | |
| C321,322 | | | CK45FF1H563Z | CERAMIC | 0.056UF | Z | | |
| C323,324 | | | CE04KW1HR47M | ELECTRO | 0.47UF | 50WV | | |
| C325,326 | | | CK45FB1H273K | CERAMIC | 0.027UF | K | | |
| C327,328 | | | CK45FF1H563Z | CERAMIC | 0.056UF | Z | | |
| C329,330 | | | CK45FB1H222K | CERAMIC | 2200PF | K | | |
| C331,332 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C333,334 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C335-342 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C343A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C345,346 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C347 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C348 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C349A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C350 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | M | |
| C351A,352A | | | CK73FB1H271J | CHIP C | 270PF | J | | |
| C353A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C354A | | | CK73FB1H471K | CHIP C | 470PF | K | | |
| C355A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C401A-403A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C404A | | | CK73FB1E104K | CHIP C | 0.10UF | K | | |
| C405A | | | CC73FCH1H220J | CHIP C | 22PF | J | | |
| C406A | | | CC73FCH1H180J | CHIP C | 18PF | J | | |
| C407 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C408 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C409 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C410A-412A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C413A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C501,502 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C513 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C514 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C515A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C516 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C517 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C518 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C519A | | | CK73FB1E223K | CHIP C | 0.022UF | K | | |
| C520A | | | CK73FB1E104K | CHIP C | 0.10UF | K | | |
| C521 | | | C90-1827-05 | ELECTRO | 0.047F | 5.5WV | | |
| C522A,523A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C524 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C525,526 | | | CE04KW1C221M | ELECTRO | 220UF | 16WV | | |
| C527,528 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV | | |
| C529A,530A | | | CK73FB1H821J | CHIP C | 820PF | J | | |
| C531,532 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV | | |
| C533A,534A | | | CK73FB1E222K | CHIP C | 2200PF | K | | |
| C535A,536 | | | CK73FB1H821J | CHIP C | 820PF | J | | |
| C601 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C602 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C603A,604A | | | CK73FB1H221J | CHIP C | 220PF | J | | |
| C605 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |

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|---|---|---|---|---|---|---|---|---|
| C605A | | | CK73FB1H102K | CHIP C | 1000PF | K | | |
| C606 | | | CE04KW1A221M | ELECTRO | 220UF | 10WV | | |
| C607,608 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C609-611 | | | CK45FB1H224Z | CERAMIC | 0.22UF | Z | | |
| C612A,613A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C614,615 | | | CE04KW1E332M | ELECTRO | 3300UF | 25WV | | |
| C616 | | | CK45FB1H224Z | CERAMIC | 0.22UF | Z | | |
| C617 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C618 | | | CE04KW1C471M | ELECTRO | 470UF | 16WV | | |
| C620 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C621 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C623 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C625 | | | CE04KW1E472M | ELECTRO | 4700UF | 25WV | | |
| C626 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C627 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C630A,631A | | | CK45FB1H104Z | CERAMIC | 0.10UF | Z | | |
| C633 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C634 | | | CE04KW1H330M | ELECTRO | 33UF | 50WV | | |
| C635 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C636 | | | CE04KW1H101M | ELECTRO | 100UF | 50WV | | |
| C638 | | | CE04KW1H101M | ELECTRO | 100UF | 50WV | | |
| C639 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| ⚠ C640 | | | C90-3862-08 | CERAMIC | 0.0047UF | 250V | | |
| C643,644 | | | CK45FB1H102K | CERAMIC | 1000PF | K | | |
| C647-649 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C650 | | | CE04KW1E100M | ELECTRO | 10UF | 25WV | | |
| C701A,702A | | | CK73FB1H471J | CHIP C | 470PF | J | | |
| C703A,704A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C705A,706A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C707,708 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C709,710 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C711,712 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C713,714 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C715,716 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C717A,718A | | | CK73FB1H561J | CHIP C | 560PF | J | | |
| C719A,720A | | | CK73FB1H221J | CHIP C | 220PF | J | | |
| C721 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C722,723 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C724 | | | CE04KW1C102M | ELECTRO | 1000UF | 16WV | | |
| C725 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C726A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C727A,728A | | | CK73FB1E223K | CHIP C | 0.022UF | K | | |
| C729A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C730 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C731 | | | CQ93HP2A682J | MYLAR | 6800PF | J | | |
| C732A,733A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C734A,735A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C736 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C737 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C738A,739A | | | CK73FB1H332K | CHIP C | 3300PF | K | | |
| C741 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C742A,743A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C801A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C802A,803A | | | CK73FB1H473K | CHIP C | 0.047UF | K | | |
| C804A | | | CC73FSL1H680J | CHIP C | 68PF | J | | |

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|---|---|---|---|---|---|---|
| C805,806 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C901 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C902A,903A | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C904,905 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C906 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C907 | | | CE04KW1C100M | ELECTRO 10UF 16WV | MTE | |
| C907 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | KP | |
| C908A | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C909 | | | CK45FB1H224Z | CERAMIC 0.22UF Z | | |
| C910 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C911,912 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C913,914 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C915 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C916 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C917A | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| C918A | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C919 | | | CK45FB1H224Z | CERAMIC 0.22UF Z | | |
| C1001A,02A | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C1003 | | | CE04KW1A470M | ELECTRO 47UF 10WV | | |
| TC101 | | | C05-0242-08 | TRIMMER CAP 014-10200-003 | | |
| CN201 | | | E40-8445-08 | FFC CONN (16P) 025-20016-202 | | |
| CN401 | | | E40-8444-08 | PIN ASSY (16P) 025-20016-201 | | |
| CN402 | | | E40-8443-08 | FFC CONN (15P) 025-20015-202 | | |
| CN403 | | ✻ | E40-8467-08 | 14P WAFER 025-20014-203 | | |
| CN404 | | | E40-8447-08 | PIN ASSY (20P) 025-20020-201 | | |
| CN405 | | | E40-8446-08 | PIN ASSY (17P) 025-20017-201 | | |
| CN501 | | ✻ | E40-8468-08 | HEADER 14P 025-20014-301 | | |
| CN502 | | ✻ | E40-8469-08 | FFC CONN (28P) 025-20028-201 | | |
| CN503 | | ✻ | E40-8470-08 | HEADER 4P 025-20004-303 | | |
| CN504 | | ✻ | E40-8471-08 | 2P WAFER 025-20002-210 | | |
| CN601 | | | E35-2426-08 | PIN ASSY (17P) 025-20017-301 | | |
| CN602 | | | E40-8450-08 | PIN ASSY (18P) 025-20018-301 | | |
| CN603 | | | E35-2427-08 | PIN ASSY (18P) 025-20018-201 | | |
| CN604 | | | E35-2425-08 | 5P WAFER 025-20005-203 | | |
| CN606 | | | E35-2424-08 | 4P WAFER 025-20004-202 | | |
| CN607 | | ✻ | E40-8472-08 | 4P WAFER 025-20004-206 | | |
| CN701 | | | E40-8449-08 | PIN ASSY (20P) 025-20020-302 | | |
| CN702 | | ✻ | E35-2453-08 | WIRE HARNESS 025-10006-087 | | |
| CN703 | | | E35-2431-08 | 12P FILM CONNE, 037-55600-125 | | |
| CN703 | | | E40-8448-08 | FFC CONN (12P) 025-20012-302 | | |
| CN801 | | | E35-2428-08 | PIN ASSY (15P) 025-20015-303 | | |
| CN902 | | ✻ | E40-8471-08 | 2P WAFER 025-20002-210 | | |
| JK101 | | | E70-0112-08 | ANT TER.(4P) 046-10300-002 | TE | |
| JK101 | | | E70-0114-08 | ANT TER.(4P) 046-10400-010 | KPM | |
| JK301 | | | E63-1091-08 | RCA JACK (2P) 046-20200-008 | | |
| JK601 | | | E70-0113-08 | SP TERMINAL (4P) 046-10400-009 | | |
| JK602 | | | E11-0398-08 | HEADPHONE JACK 021-23507-100 | | |
| JK603 | | | E63-1092-08 | PHONO JACK (1P) 046-20100-008 | | |
| ⚠ F601-603 | | | F50-0151-08 | FUSE 3.15A/250V, 050-05020-317 | KPME | |
| ⚠ F601-603 | | | F50-0152-08 | FUSE 2A/250V 050-05020-201 | T | |
| ⚠ F604 | | | F50-0149-08 | FUSE 0.5A/250V 050-05020-052 | KPME | |
| ⚠ F604 | | | F50-0153-08 | FUSE 0.5A/250V 050-05020-053 | T | |
| ⚠ F605 | | | F50-0150-08 | FUSE 2A/250V 050-05020-206 | KPME | |
| ⚠ F605 | | | F50-0154-08 | FUSE 3.15A/250V 050-05020-318 | T | |

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|---|---|---|---|---|---|---|
| CF101,102 | | | L72-0536-05 | CERAMIC FILTER 028-10700-023 | TE | |
| CF101,102 | | | L72-0596-05 | CERAMIC FILTER 028-10700-009 | KPM | |
| CF103 | | | L72-0624-08 | CERAMIC FILTER 028-00450-000 | | |
| L101 | | | L40-2291-17 | INDUCTOR 2.2UH 015-70022-007 | | |
| L102 | | | L40-1011-17 | INDUCTOR 100UH 015-70101-007 | | |
| L103 | | | L40-1011-17 | INDUCTOR 100UH 015-70101-007 | ET | |
| L201 | | | L40-1001-17 | INDUCTOR 10UH 015-70100-007 | | |
| L401 | | | L40-1001-17 | INDUCTOR 10UH 015-70100-007 | | |
| L701,702 | | | L40-1035-29 | CHOKE COILS (10MH) 015-00103-00 | | |
| T101 | | | L31-0640-08 | AM ANT COIL 016-21032-104 | | |
| T102 | | | L32-1018-08 | MW OSC COIL 016-20360-023 | | |
| T103 | | | L30-0963-08 | AM IFT 016-27485-041 | | |
| T104 | | | L30-0962-08 | FM IFT 016-22373-102 | | |
| T701 | | | L32-1019-08 | BIAS OSC COIL 016-23841-103 | | |
| X101 | | | L77-2262-08 | CRYSTAL (7.2MHZ)052-07200-001 | | |
| X102 | | | L77-2265-08 | CRYSTAL (4.3MHZ)052-43320-000 | TE | |
| X201 | | | L77-2263-08 | CRYSTAL (16.934MHZ) 052-16934-0 | | |
| X401 | | | L77-2264-08 | CRYSTAL (32.768MHZ) 052-32768-0 | | |
| X402 | | | L78-0705-08 | CERAMIC RESONATOR, 052-01000-10 | | |
| X501 | | ✻ | L78-0709-08 | CERAMIC RESONATOR, 052-05000-10 | | |
| J830A-832A | | | RK73FB2A000J | CHIP R 0 J 1/10W | | |
| J837A | | | RK73FB2A000J | CHIP R 0 J 1/10W | | |
| R55A | | | RK73FB2A183J | CHIP R 18K J 1/10W | | |
| R102A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R104A | | | RK73FB2A681J | CHIP R 680 J 1/10W | | |
| R108A | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | | |
| R109A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R110A,111A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |
| R112A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R113A | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | | |
| R114A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |
| R115A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R116A | | | RK73FB2A000J | CHIP R 0 J 1/10W | | |
| R117A | | | RK73FB2A470J | CHIP R 47 J 1/10W | | |
| R118A,119A | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R120A | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | | |
| R121A | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R122A | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R123A | | | RK73FB2A123J | CHIP R 12K J 1/10W | KP | |
| R123A | | | RK73FB2A183J | CHIP R 18K J 1/10W | ET | |
| R123A | | | RK73FB2A682J | CHIP R 6.8K J 1/10W | M | |
| R124A | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R125A,126A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R127A | | | RK73FB2A272J | CHIP R 2.7K J 1/10W | | |
| R128A | | | RK73FB2A393J | CHIP R 39K J 1/10W | | |
| R129A | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R130A,131A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R132A | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | | |
| R133A | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R134A-137A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R138A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |
| R139A,140A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | ET | |
| R141A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |
| R142A | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R143A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |

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|---|---|---|---|---|---|---|---|---|---|
| R144A,145A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R146A,147A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R148A | | | RK73FB2A562J | CHIP R | 5.6K | J | 1/10W | | |
| R150A | | | RK73FB2A681J | CHIP R | 680 | J | 1/10W | KPM | |
| R151A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R152A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R155A | | | RK73FB2A000J | CHIP R | 0 | J | 1/10W | ET | |
| R155A | | | RK73FB2A4R7J | CHIP R | 4.7 | J | 1/10W | KPM | |
| R156A | | | RK73FB2A000J | CHIP R | 0 | J | 1/10W | KPM | |
| R201A-204A | | | RK73FB2A683J | CHIP R | 68K | J | 1/10W | | |
| R205A,206A | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R208A | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R209A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R210A,211A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R212A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R213A | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| R214A,215A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R216A,217A | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R218A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R219A | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | | |
| R220A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R221A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R222A | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R223A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R224A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R225A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R226A,227A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R228A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R229A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R230A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R231A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R232A-234A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R235A,236A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R237A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R238A | | | RK73FB2A184J | CHIP R | 180K | J | 1/10W | | |
| R239A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R240A | | | RK73FB2A912J | CHIP R | 9.1K | J | 1/10W | | |
| R241A-244A | | | RK73FB2A822J | CHIP R | 8.2K | J | 1/10W | | |
| R245A | | | RK73FB2A912J | CHIP R | 9.1K | J | 1/10W | | |
| R246A,247A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R248A,249A | | | RK73FB2A474J | CHIP R | 470K | J | 1/10W | | |
| R250A | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | | |
| R251A | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R252A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R253A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R254A | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | | |
| R255A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R256A | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R257A | | | RK73FB2A331J | CHIP R | 330 | J | 1/10W | | |
| R258A | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R259A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R260A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R301A,302A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R303A,304A | | | RK73FB2A822J | CHIP R | 8.2K | J | 1/10W | | |
| R305A-308A | | | RK73FB2A752J | CHIP R | 7.5K | J | 1/10W | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | | | | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|---|---|---|
| R309A,310A | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R315A,316A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R317A,318A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R319A,320A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R321A,322A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R323A,324A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R325A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R326A,327A | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R328A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R329A-332A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R333A,334A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R404A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R406A,407A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R412A-414A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R417A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R418A | | | RK73FB2A475J | CHIP R | 4.7M | J | 1/10W | | |
| R419A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R421A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R422A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R425A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R426A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R427A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R428A-430A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R431A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R432A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R433A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R434A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R442A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R517 | | ✻ | R92-1927-08 | FUSE R | 22 | J | 1W | | |
| R527A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R528A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R531 | | | R92-0341-05 | FUSE RESIST | 4.7 | J | 1/4W | | |
| R533A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R534A-538A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R540A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R541A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R542A,543A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R544A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R545A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R546A | | | RK73FB2A152J | CHIP R | 1.5K | J | 1/10W | | |
| R550A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R552A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R553A,554A | | | RK73FB2A121J | CHIP R | 120 | J | 1/10W | | |
| R555A,556A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R557A,558A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R559A,560A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R561A,562A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R563A,564A | | | RK73FB2A152J | CHIP R | 1.5K | J | 1/10W | | |
| R565A,566A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R567A,568A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R569A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R601A,602A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R603A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | KP | |
| R603A | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | MTE | |
| R604A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |

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⑪

| Ref. No | Add-ress | New Parts | Parts No. | Description | | | | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|---|---|---|
| R605A,606A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R607A,608A | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | | |
| ⚠ R609 | | | R92-1921-08 | FUSE RESIST | 3.3 | J | 1/4W | | |
| R610A | | | RK73FB2A221J | CHIP R | 220 | J | 1/10W | | |
| R611,612 | | | R92-0341-05 | FUSE RESIST | 4.7 | J | 1/4W | | |
| R615A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R617A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R620A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| ⚠ R622 | | | R92-1921-08 | FUSE RESIST | 3.3 | J | 1/4W | | |
| R623A | | | RK73FB2A221J | CHIP R | 220 | J | 1/10W | | |
| R625A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R626A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R627A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R628A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| ⚠ R629 | | | R92-1928-08 | FUSE RESIST | 0.22 | J | 2W | | |
| R630A | | | RK73FB2A821J | CHIP R | 820 | J | 1/10W | | |
| R631A | | | RK73FB2A202J | CHIP R | 2.0K | J | 1/10W | | |
| R632A | | | RK73FB2A562J | CHIP R | 5.6K | J | 1/10W | | |
| R633A | | | RK73FB2A561J | CHIP R | 560 | J | 1/10W | | |
| R634A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R635A | | | RK73FB2A123J | CHIP R | 12K | J | 1/10W | | |
| R636A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R637A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| ⚠ R638 | | | R92-0219-05 | FUSE RESIST | 10 | G | 1/4W | | |
| R640A | | | RK73FB2A681J | CHIP R | 680 | J | 1/10W | | |
| R641A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R642A | | | RK73FB2A122J | CHIP R | 1.2K | J | 1/10W | | |
| ⚠ R649 | | | R92-1844-05 | CARBON | 3.3M | J | 1/2W | KP | |
| R650A-653A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R654A | | | RK73FB2A182J | CHIP R | 1.8K | J | 1/10W | | |
| R655A-657A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R658A | | | RK73FB2A564J | CHIP R | 560K | J | 1/10W | | |
| R701A,702A | | | RK73FB2A184J | CHIP R | 180K | J | 1/10W | | |
| R703A,704A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R705A,706A | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R707A,708A | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | | |
| R709A,710A | | | RK73FB2A123J | CHIP R | 12K | J | 1/10W | | |
| R711A,712A | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| R713A,714A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R715A,716A | | | RK73FB2A391J | CHIP R | 390 | J | 1/10W | | |
| R717A,718A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R719A,720A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R721A,722A | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | | |
| R723A,724A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R725A,726A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R727A,728A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R731A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R734A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R735A | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R736A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R739A,740A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R741,742 | | | RK73FB2A3R3J | CHIP R | 3.3 | J | 1/10W | | |
| R743A | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R744A | | | RK73FB2A202J | CHIP R | 2.0K | J | 1/10W | | |
| R745A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |

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⑫

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|---|---|---|---|---|---|---|---|---|---|
| R747A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R748A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R749A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R750A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R751A | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R752A | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R753A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | KP | |
| R753A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | MET | |
| R754A | | | RK73FB2A912J | CHIP R | 9.1K | J | 1/10W | | |
| R755A | | | RK73FB2A392J | CHIP R | 3.9K | J | 1/10W | | |
| R756A-758A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R759A | | | RK73FB2A683J | CHIP R | 68K | J | 1/10W | | |
| R760A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R762A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R763A-766A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R767A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R768A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R769A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R770A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R771A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R772A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R773A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R774A | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | | |
| R775A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R777A,778A | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R779A,780A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R782A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R783A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R784A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R785A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R786A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R787A,788A | | | RK73FB2A152J | CHIP R | 1.5K | J | 1/10W | | |
| R789 | | | RK73FB2A331J | CHIP R | 330 | J | 1/10W | | |
| R801A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R802A-808A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R809A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R810A-822A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R823A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R824A-846A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R847A-851A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R852A-859A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R860A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R861A-864A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R866A | | | RK73FB2A201J | CHIP R | 200 | J | 1/10W | | |
| R867A | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | | |
| R868A | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | | |
| R869A | | | RK73FB2A621J | CHIP R | 620 | J | 1/10W | | |
| R871A | | | RK73FB2A201J | CHIP R | 200 | J | 1/10W | | |
| R872A | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | | |
| R873A | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | | |
| R874A | | | RK73FB2A621J | CHIP R | 620 | J | 1/10W | | |
| R875A | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R877A | | | RK73FB2A201J | CHIP R | 200 | J | 1/10W | | |
| R878A | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | | |
| R879A | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | | |

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⑬

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|---|---|---|---|---|---|---|
| R880A | | | RK73FB2A621J | CHIP R 620 J 1/10W | | |
| R881A | | | RK73FB2A132J | CHIP R 1.3K J 1/10W | | |
| R882A | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R901A | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R902A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R903A | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | | |
| R904A | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R905A | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R906A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R907A,908A | | | RK73FB2A683J | CHIP R 68K J 1/10W | | |
| R909A | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R910A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R911A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R912A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R913A | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R914A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R915A | | | RK73FB2A682J | CHIP R 6.8K J 1/10W | | |
| R916A,917A | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R918A,919A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R920A | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R921A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R922A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R924A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R925A,926A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R927A,928A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R930A | | | RK73FB2A470J | CHIP R 47 J 1/10W | | |
| R931A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R932A | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | | |
| R933 | | | RD14BB2H221J | RD 220 J 1/2W | | |
| R935A,936A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R938A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R941A | | | RK73FB2A224J | CHIP R 220K J 1/10W | | |
| R942A,943A | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R944A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R945A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R946A | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R947A | | | RK73FB2A333J | CHIP R 33K J 1/10W | | |
| R948A,949A | | | RK73FB2A154J | CHIP R 150K J 1/10W | | |
| R1001A | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | | |
| R1002A | | | RK73FB2A201J | CHIP R 200 J 1/10W | | |
| R1003A | | | RK73FB2A271J | CHIP R 270 J 1/10W | | |
| R1004A | | | RK73FB2A361J | CHIP R 360 J 1/10W | | |
| R1005A | | | RK73FB2A621J | CHIP R 620 J 1/10W | | |
| R1006A | | | RK73FB2A132J | CHIP R 1.3K J 1/10W | | |
| R1007A | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | | |
| R1008A | | | RK73FB2A201J | CHIP R 200 J 1/10W | | |
| R1009A | | | RK73FB2A271J | CHIP R 270 J 1/10W | | |
| R1010A | | | RK73FB2A361J | CHIP R 360 J 1/10W | | |
| R1011A | | | RK73FB2A621J | CHIP R 620 J 1/10W | | |
| R1012A | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | | |
| R1013A | | | RK73FB2A201J | CHIP R 200 J 1/10W | | |
| R1014A | | | RK73FB2A271J | CHIP R 270 J 1/10W | | |
| R1015A | | | RK73FB2A361J | CHIP R 360 J 1/10W | | |
| R1016A | | | RK73FB2A621J | CHIP R 620 J 1/10W | | |
| R1017A | | | RK73FB2A132J | CHIP R 1.3K J 1/10W | | |

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|---|---|---|---|---|---|---|
| R1018A,19A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R1020A,21A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R1022A | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R1023A,24A | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R1025A | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R1026A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R1027A | | | RK73FB2A182J | CHIP R 1.8K J 1/10W | | |
| R1028A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R1029A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R1030A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R1031A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R1032A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R1033A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R1034A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R1035A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R1036A-39A | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R1040A-42A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| V1001 | | | T99-0625-08 | ROTARY ENCODER 020-81620-165 | | |
| VR101 | | | R32-0085-08 | TRIMMING POT 012-10103-102 | | |
| VR201 | | | R32-0084-08 | TRIMMING POT 012-10203-102 | | |
| VR701,702 | | | R32-0086-08 | TRIMMING POT 012-10104-201 | | |
| SW1001 | | | S70-0053-08 | TACT SWITCH 020-31100-155 | | |
| SW1003-7 | | | S70-0053-08 | TACT SWITCH 020-31100-155 | | |
| SW401 | | | S68-0123-08 | PUSH SWITCH 020-32204-160 | | |
| SW601 | | | S62-0090-08 | SLIDE SWITCH 020-12207-106 | | |
| ⚠ SW603 | | | S62-0091-08 | SLIDE SWITCH (AC CHANGE) | M | |
| SW801-810 | | | S70-0075-08 | TACT SWITCH 020-31100-162 | | |
| SW901,902 | | | S74-0082-08 | DETECTOR SWITCH 020-31100-053 | | |
| ⚠ BD601,602 | | | RS402 | BRIDGE RECTIFIER RS402 | | |
| D101,102 | | | 1SS133 | SWITCHING DIODE | | |
| D103 | | | MTZJ5.1B | ZENER DIODE | | |
| D201,202 | | | 1SS133 | SWITCHING DIODE | | |
| D401-409 | | | 1SS133 | SWITCHING DIODE | | |
| D501 | | | MTZJ3.3B | ZENER DIODE | | |
| D502 | | | 1SS133 | SWITCHING DIODE | | |
| D503 | | | MTZJ6.8B | ZENER DIODE | | |
| D504 | | | 1SS133 | SWITCHING DIODE | | |
| ⚠ D505 | | | 1N4004 | DIODE | | |
| D601 | | | 1SS133 | SWITCHING DIODE | | |
| D602 | | | MTZJ6.8B | ZENER DIODE | | |
| D604 | | | 1SS133 | SWITCHING DIODE | | |
| D605 | | | MTZJ5.1B | ZENER DIODE | | |
| D606 | | | MTZJ5.6B | ZENER DIODE | | |
| D607 | | | MTZJ6.2B | ZENER DIODE | | |
| D608 | | | MTZJ33B | ZENER DIODE | | |
| ⚠ D609 | | | 1N4004 | DIODE | | |
| D610-614 | | | 1SS133 | DIODE (SWITCHING) | | |
| D615 | | | MTZJ5.6B | ZENER DIODE | | |
| D617 | | | MTZJ6.8B | ZENER DIODE | | |
| D620 | | | 1SS133 | DIODE (SWITCHING) | | |
| D702 | | | 1SS133 | DIODE (SWITCHING) | | |
| D703,704 | | | 1N4004 | DIODE | | |
| D705-706 | | | 1SS133 | DIODE (SWITCHING) | | |

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|---|---|---|---|---|---|---|
| D708 | | | MTZJ5.1B | ZENER DIODE | | |
| D709 | | | MTZJ13B | ZENER DIODE | | |
| D901-906 | | | 1SS133 | SWITCHING DIODE | | |
| D907 | | | MTZJ3.3B | ZENER DIODE | | |
| D908-913 | | | 1SS133 | SWITCHING DIODE | | |
| FL801 | | | CM1829C | FL 049-18293-000 | | |
| IC1001 | | | W02-2707-08 | ELECTRIC MODULE, 061-04481-000 | | |
| IC101 | | | LA1837 | IC(FM/AM SYSTEM IC) | | |
| IC102 | | | LC72131 | IC(PLL FREQUENCY SYNTHESIZER) | | |
| IC103 | | | BU1923F | IC | TE | |
| IC201 | | | CXA1571M | IC(CD RF AMP) | | |
| IC202 | | | CXD2587Q | IC(DAC DSP) | | |
| IC203 | | | BA5979S | IC(4CH BTL) | | |
| IC301 | | | LC75396NE | IC(ELECTRIC VOLUME) | | |
| IC401 | | | M30622MA-198FP | IC | | |
| IC402 | | | PST600F | IC | | |
| IC501 | | | UPD78058GC-B20 | IC | | |
| IC502 | | | TC74HCT7007AF | IC(HEX BUFFER) | | |
| IC503 | | | LA6458S | IC(OP AMP X2) | | |
| ⚠ IC601 | | | TDA7265 | IC | | |
| IC701 | | | BA3126N | IC(HEAD SW) | | |
| IC702 | | | HA12219NT | IC(EQ) | | |
| IC703 | | | LA6458S | IC(OP AMP X2) | | |
| IC801 | | | LC75710NE | IC(VFD DISPLAY DRIVER) | | |
| Q101 | | | 2SA1317 | TRANSISTOR | | |
| Q102 | | | 2SC1923-O | TRANSISTOR | | |
| Q103 | | | 2SA1317 | TRANSISTOR | ET | |
| Q201 | | | 2SA984E | TRANSISTOR | | |
| Q202 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q203 | | | 2SA984E | TRANSISTOR | | |
| ⚠ Q204 | | | 2SB764(E,F) | TRANSISTOR | | |
| Q301,302 | | | 2SA1317 | TRANSISTOR | | |
| Q303-306 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q401 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q501,502 | | | 2SD400E | TRANSISTOR | | |
| Q503-506 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q507,508 | | | 2SA1317 | TRANSISTOR | | |
| ⚠ Q601-603 | | | 2SD2144W | TRANSISTOR | | |
| ⚠ Q604 | | | 2SD2061F | TRANSISTOR | | |
| Q605 | | | 2SA1317 | TRANSISTOR | | |
| Q606 | | | 2SC3330(S,T) | TRANSISTOR | | |
| ⚠ Q607 | | | 2SD2061F | TRANSISTOR | | |
| Q608 | | | 2SC2274E | TRANSISTOR | | |
| Q609 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q610 | | | 2SA1317 | TRANSISTOR | | |
| ⚠ Q611 | | | 2SC2274E | TRANSISTOR | | |
| ⚠ Q612 | | | 2SA984E | TRANSISTOR | | |
| Q613 | | | 2SA1317 | TRANSISTOR | | |
| Q701,702 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q703 | | | 2SC2274E | TRANSISTOR | | |
| Q705 | | | 2SA1317 | TRANSISTOR | | |
| Q706,707 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q708 | | | 2SA984E | TRANSISTOR | | |
| Q709 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q710 | | | 2SB1205(S,T) | TRANSISTOR | | |

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|---|---|---|---|---|---|---|
| Q711 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q712 | | | 2SA1317 | TRANSISTOR | | |
| Q713 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q714 | | | 2SD2061E | TRANSISTOR | | |
| Q715 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q801-808 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q901 | | | 2SC2274E | TRANSISTOR | | |
| Q902,903 | | | 2SA984E | TRANSISTOR | | |
| Q904 | | | 2SC2274E | TRANSISTOR | | |
| Q905,906 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q907 | | | 2SA984E | TRANSISTOR | | |
| Q908,909 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q910 | | | 2SA1317 | TRANSISTOR | | |
| Q911 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q912 | | | 2SA1317 | TRANSISTOR | | |
| Q913-916 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q1001,2 | | | 2SA1317 | TRANSISTOR | | |
| Q1003-8 | | | 2SC3330U | TRANSISTOR | | |
| VC101 | | | SVC342L | TUNING DIODES | | |
| JK302 | | | W02-1114-05 | OPT OUTPUT 061-00178-001 | M | |
| U101 | | | W02-2706-08 | FM FRONT END 061-00172-003 | TE | |
| U101 | | | W02-2711-08 | FM FRONT END 061-00172-002 | KPM | |

## MD MECHANISM (MDM-98A)

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|
| C1100 | | | C92-0171-08 | CHIP-C 4.7UF K | | |
| C1101 | | | C92-0205-08 | ELECTRO 1.0UF 6.3WV | | |
| C1102 | | | CK73FF1C105K | CHIP C 1.0UF K | | |
| C1103 | | | CK73FB1H273K | CHIP C 0.027UF K | | |
| C1104 | | | CK73FB1H333K | CHIP C 0.033UF K | | |
| C1105 | | | CK73FB1H332K | CHIP C 3300PF K | | |
| C1106 | | | C92-0205-08 | ELECTRO 1.0UF 6.3WV | | |
| C1107 | | | CK73GB1C333K | CHIP C 0.033UF K | | |
| C1108 | | | CK73FB1C474K | CHIP C 0.47UF K | | |
| C1109 | | | C92-0205-08 | ELECTRO 1.0UF 6.3WV | | |
| C1110 | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C1111 | | | CK73FB1C474K | CHIP C 0.47UF K | | |
| C1112 | | | C93-0044-08 | CERAMIC 330PF J | | |
| C1113-17 | | | C93-0034-08 | CERAMIC 270PF J | | |
| C1118 | | | CK73FF1C105Z | CHIP C 1.0UF Z | | |
| C1119 | | | C92-0205-08 | ELECTRO 1.0UF 6.3WV | | |
| C1120 | | | CK73FF1H103Z | CHIP C 0.010UF Z | | |
| C1200 | | | CK73FF1C105Z | CHIP C 1.0UF Z | | |
| C1201 | | | C92-0172-08 | CHIP-C 10UF K | | |
| C1202,03 | | | CK73FF1C105Z | CHIP C 1.0UF Z | | |
| C1204 | | | CK73GB1C473K | CHIP C 0.047UF K | | |
| C1205 | | | CK73FF1C105Z | CHIP C 1.0UF Z | | |
| C1206 | | | CK73FB1H122K | CHIP C 1200PF K | | |
| C1207 | | | CK73FF1C105Z | CHIP C 1.0UF Z | | |
| C1208,09 | | | CC73GCH1H120J | CHIP C 12PF J | | |
| C1210 | | | CC73GCH1H220J | CHIP C 22PF J | | |
| C1300 | | | CC73FCH1H121J | CHIP C 120PF J | | |
| C1301 | | | CK73GB1C273K | CHIP C 0.027UF K | | |
| C1302 | | | C92-0172-08 | CHIP-C 10UF K | | |
| C1303 | | | C92-0171-08 | CHIP-C 4.7UF K | | |
| C1304 | | | C92-0172-08 | CHIP-C 10UF K | | |

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|---|---|---|---|---|---|---|---|---|
| C1400,01 | | | CK73GB1C223K | CHIP C | 0.022UF | K | | |
| C1402 | | | CK73FB1H681K | CHIP C | 680PF | K | | |
| C1403 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1404 | | | CK73GB1C223K | CHIP C | 0.022UF | K | | |
| C1405 | | | CK73FB1H681K | CHIP C | 680PF | K | | |
| C1406 | | | CK73GB1C223K | CHIP C | 0.022UF | K | | |
| C1407 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1408 | | | CK73GB1C223K | CHIP C | 0.022UF | K | | |
| C1409 | | | CK73GF1E104Z | CHIP C | 0.10UF | Z | | |
| C1410 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1411 | | | C93-0044-08 | CERAMIC | 330PF | J | | |
| C1501 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1502 | | | CC73GCH1H221J | CHIP C | 220PF | J | | |
| C1503 | | | CK73EB1C334K | CHIP C | 0.33UF | K | | |
| C1504 | | | CC73GCH1H221J | CHIP C | 220PF | J | | |
| C1505,06 | | | CC73GCH1H101J | CHIP C | 100PF | J | | |
| C1508,09 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1511 | | | CC73GCH1H220J | CHIP C | 22PF | J | | |
| C1600 | | | CK73EF1C105Z | CHIP C | 1.0UF | Z | | |
| C1601-04 | | | CC73GSL1H821J | CHIP C | 820PF | J | | |
| C1606 | | | C92-0172-08 | CHIP-C | 10UF | K | | |
| C1607 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1608 | | | C92-0151-08 | ELECTRO | 100UF | 10WV | | |
| C1610 | | | C92-0171-08 | CHIP-C | 4.7UF | K | | |
| C1611,12 | | | CK73FB1H822K | CHIP C | 8200PF | K | | |
| C1613 | | | CK73GB1E153K | CHIP C | 0.015UF | K | | |
| C1615 | | | CK73GB1E153K | CHIP C | 0.015UF | K | | |
| C1616 | | | C92-0151-08 | ELECTRO | 100UF | 10WV | | |
| C1619 | | | C93-0044-08 | CERAMIC | 330PF | J | | |
| C1700,01 | | | C92-0162-08 | ELECTRO | 47UF | 4WV | | |
| C1702 | | | C93-0035-08 | CERAMIC | 0.01UF | K | | |
| C1703 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1704 | | | C92-0162-08 | ELECTRO | 47UF | 4WV | | |
| C1705 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1706 | | | CK73FF1H103Z | CHIP C | 0.010UF | Z | | |
| C1707 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1708,09 | | | CK73FF1H103Z | CHIP C | 0.010UF | Z | | |
| C1710 | | | C92-0173-08 | ELECTRO | 10UF | 16WV | | |
| C1711 | | | C92-0162-08 | ELECTRO | 47UF | 4WV | | |
| C1712 | | | C92-0173-08 | ELECTRO | 10UF | 16WV | | |
| C1713 | | | CK73FF1H103Z | CHIP C | 0.010UF | Z | | |
| C1714 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1715 | | | CK73FF1H103Z | CHIP C | 0.010UF | Z | | |
| C1716 | | | C92-0162-08 | ELECTRO | 47UF | 4WV | | |
| C1800 | | | C92-0174-08 | ELECTRO | 220UF | 4WV | | |
| C1801,02 | | | C92-0172-08 | CHIP-C | 10UF | K | | |
| C1803 | | | C92-0151-08 | ELECTRO | 100UF | 10WV | | |
| C1804 | | | CK73EF1C225Z | CHIP C | 2.2UF | Z | | |
| C1805 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| CN1101 | | | E40-8210-08 | PIN ASSY | | | | |
| CN1300 | | | E40-8080-08 | PIN ASSY | | | | |
| CN1401 | | | E40-8211-08 | PIN ASSY | | | | |
| CN1501 | | | E40-8371-08 | PIN ASSY | | | | |
| CN1602 | | | E40-8212-08 | PIN ASSY | | | | |

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| CN1603 | | | E40-8372-08 | PIN ASSY | | | | | |
| CN1604 | | | E40-8213-08 | PIN ASSY | | | | | |
| CN1901 | | | E40-8228-08 | PIN ASSY | | | | | |
| CW1901 | 2A | | E40-8229-08 | FLAT CABLE (5P) | | | | | |
| CW1903 | 2B | | E40-8230-08 | WIRING HARNESS (2P) | | | | | |
| L1100 | | | L90-0100-08 | COIL | | | | | |
| L1101 | | | L90-0099-08 | COIL | | | | | |
| L1200 | | | L90-0301-08 | COIL | | | | | |
| L1201 | | | L90-0100-08 | COIL | | | | | |
| L1300,01 | | | L90-0302-08 | COIL | | | | | |
| L1501 | | | L90-0303-08 | COIL | | | | | |
| L1503 | | | L90-0301-08 | COIL | | | | | |
| L1600 | | | L90-0303-08 | COIL | | | | | |
| L1700,01 | | | L90-0099-08 | COIL | | | | | |
| XL1201 | | | L77-2224-08 | CRYSTAL RESONATOR (33.8688MHZ) | | | | | |
| R1100 | | | RK73EB2B270J | CHIP R | 27 | J | 1/8W | | |
| R1101 | | | RK73GB1J1R0J | CHIP R | 1 | J | 1/16W | | |
| R1102 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1103 | | | RK73GB1J394J | CHIP R | 390K | J | 1/16W | | |
| R1105 | | | RK73GB1J122J | CHIP R | 1.2K | J | 1/16W | | |
| R1106 | | | RK73GB1J563J | CHIP R | 56K | J | 1/16W | | |
| R1107 | | | RK73GB1J561J | CHIP R | 560 | J | 1/16W | | |
| R1108-12 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | | |
| R1113 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1200,01 | | | RK73GB1J124J | CHIP R | 120K | J | 1/16W | | |
| R1202,03 | | | RK73GB1J154D | CHIP R | 150K | D | 1/16W | | |
| R1204,05 | | | RK73GB1J623J | CHIP R | 62K | J | 1/16W | | |
| R1206,07 | | | RK73GB1J333J | CHIP R | 33K | J | 1/16W | | |
| R1208 | | | RK73GB1J221J | CHIP R | 220 | J | 1/16W | | |
| R1209 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R1210,11 | | | RK73GB1J221J | CHIP R | 220 | J | 1/16W | | |
| R1212 | | | RK73GB1J470J | CHIP R | 47 | J | 1/16W | | |
| R1214 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1215 | | | RK73GB1J105J | CHIP R | 1.0M | J | 1/16W | | |
| R1216 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1217 | | | RK73GB1J151J | CHIP R | 150 | J | 1/16W | | |
| R1219 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1220 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1221,22 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1223 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R1224 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1300 | | | R92-1824-08 | JUMPER R | 0 | J | 1/10W | | |
| R1301 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R1302 | | | R92-1824-08 | JUMPER R | 0 | J | 1/10W | | |
| R1303 | | | RK73EB2B000J | CHIP R | 0 | J | 1/8W | | |
| R1304 | | | RK73FB2A681J | CHIP R | 680 | J | 1/10W | | |
| R1400 | | | RK73GB1J272J | CHIP R | 2.7K | J | 1/16W | | |
| R1401 | | | RK73GB1J152J | CHIP R | 1.5K | J | 1/16W | | |
| R1402-04 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1405 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R1406,07 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R1408 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R1409 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1410 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R1411 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |

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⑲

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| R1412 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R1413,14 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R1415-17 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R1419-24 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R1425 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R1426-28 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R1429 | | | RK73GB1J473J | CHIP R 47K J 1/16W | | |
| R1430 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R1444 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R1510,11 | | | RK73GB1J822J | CHIP R 8.2K J 1/16W | | |
| R1512,13 | | | RK73GB1J470J | CHIP R 47 J 1/16W | | |
| R1514 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R1515,16 | | | RK73GB1J182J | CHIP R 1.8K J 1/16W | | |
| R1517,18 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R1519 | | | RK73GB1J121J | CHIP R 120 J 1/16W | | |
| R1520 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R1521 | | | RK73GB1J682J | CHIP R 6.8K J 1/16W | | |
| R1522 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R1523 | | | R92-1823-08 | JUMPER R 0 J 1/16W | | |
| R1525 | | | RK73GB1J332J | CHIP R 3.3K J 1/16W | | |
| R1526 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R1527-29 | | | RK73GB1J822J | CHIP R 8.2K J 1/16W | | |
| R1530,31 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R1532 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R1535 | | | RK73FB2A470J | CHIP R 47 J 1/10W | | |
| R1536-39 | | | R92-1824-08 | JUMPER R 0 J 1/10W | | |
| R1561 | | | R92-1824-08 | JUMPER R 0 J 1/10W | | |
| R1600,01 | | | RK73GB1J682D | CHIP R 6.8K D 1/16W | | |
| R1605,06 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R1612 | | | RK73GB1J204D | CHIP R 200K D 1/16W | | |
| R1614 | | | R92-1874-08 | METAL 100K D 1/16W | | |
| R1616,17 | | | RK73GB1J682J | CHIP R 6.8K J 1/16W | | |
| R1618 | | | RK73GB1J153J | CHIP R 15K J 1/16W | | |
| R1620 | | | RK73GB1J153J | CHIP R 15K J 1/16W | | |
| R1700 | | | RK73GB1J393J | CHIP R 39K J 1/16W | | |
| R1701 | | | RK73GB1J303J | CHIP R 30K J 1/16W | | |
| R1702 | | | R92-1872-08 | METAL 1K D 1/16W | | |
| R1703 | | | R92-1875-08 | METAL 3.3K D 1/16W | | |
| R1704 | | | RK73GB1J821J | CHIP R 820 J 1/16W | | |
| R1705 | | | RK73GB1J393J | CHIP R 39K J 1/16W | | |
| R1706 | | | RK73GB1J105J | CHIP R 1.0M J 1/16W | | |
| R1707 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R1708 | | | RK73GB1J273J | CHIP R 27K J 1/16W | | |
| R1709 | | | RK73GB1J393J | CHIP R 39K J 1/16W | | |
| R1710 | | | RK73GB1J684J | CHIP R 680K J 1/16W | | |
| R1711,12 | | | RK73FB2A120J | CHIP R 12 J 1/10W | | |
| R1713 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R1801 | | | RK73GB1J271J | CHIP R 270 J 1/16W | | |
| R1802 | | | R92-1873-08 | METAL 220K D 1/16W | | |
| R1803 | | | R92-1874-08 | METAL 100K D 1/16W | | |
| R1804 | | | RK73GB1J391J | CHIP R 390 J 1/16W | | |
| R1805 | | | RK73GB1J271J | CHIP R 270 J 1/16W | | |
| ⚠ R1806 | | | RK73FB2A1R0J | CHIP R 1 J 1/10W | | |
| R1807 | | | RK73GB1J273J | CHIP R 27K J 1/16W | | |
| R1808 | | | RK73GB1J182J | CHIP R 1.8K J 1/16W | | |

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⑳

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|---|---|---|---|---|---|---|
| ⚠ R1809 | | | RK73EB2B1R0J | CHIP R 1 J 1/8W | | |
| ⚠ R1811 | | | RK73EB2B1R0J | CHIP R 1 J 1/8W | | |
| R1901 | | | RK73FB2A471J | CHIP R 470 J 1/10W | | |
| R1902 | | | RK73FB2A182J | CHIP R 1.8K J 1/10W | | |
| R1903,04 | | | RK73FB2A821J | CHIP R 820 J 1/10W | | |
| SW1952 | | | S68-0090-08 | SWITCH | | |
| SW1953 | 2A | | S68-0092-08 | SWITCH | | |
| SW1954,55 | 2A | | S64-0035-08 | SWITCH | | |
| SW1956 | 2A | | S64-0029-08 | SWITCH | | |
| D1300,01 | | | SB0209CP | DIODE | | |
| D1401 | | | SB00703Q | DIODE | | |
| IC1101 | | | IR3R55 | IC | | |
| IC1201 | | | LR376484 | IC | | |
| IC1202 | | | IX2474AF | IC | | |
| IC1300 | | | 74ACT02F | IC | | |
| IC1401 | | | IX0253AW | IC | | |
| IC1402 | | | S29294A | IC | | |
| IC1601 | | | BA5984FP | IC | | |
| IC1701 | | | UDA1344 | IC | | |
| IC1702 | | | NJM431U | IC(REGULATOR) | | |
| IC1801 | | | XC62EP32 | IC | | |
| Q1300 | | | 2SK2909 | FET | | |
| Q1301 | | | 2SK1473 | FET | | |
| Q1302 | | | 2SK2909 | FET | | |
| Q1303 | | | 2SK1473 | FET | | |
| Q1400,01 | | | RNC1404 | TRANSISTOR | | |
| Q1402,03 | | | RN2404 | TRANSISTOR | | |
| Q1500 | | | RNC1407 | TRANSISTOR | | |
| ⚠ Q1700 | | | 2SC2412KR | TRANSISTOR | | |
| Q1701 | | | RNC1404 | TRANSISTOR | | |
| ⚠ Q1702 | | | 2SA1162G | TRANSISTOR | | |
| Q1800 | | | RNC1407 | TRANSISTOR | | |
| Q1801 | | | 2SA1162G | TRANSISTOR | | |
| Q1802 | | | RNC1407 | TRANSISTOR | | |
| Q1803 | | | RN1406 | TRANSISTOR | | |
| ⚠ Q1804,05 | | | 2SA1314C | TRANSISTOR | | |
| Q1806 | | | RN1406 | TRANSISTOR | | |

## MD MECHANISM (D40-1602-05)

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| 201 | 2B | | J90-0857-08 | GUIDE | | |
| 202 | 3A | | J90-0858-08 | GUIDE | | |
| 203 | 2B | | A13-3122-08 | FRAME | | |
| 204 | 3B | | A10-3416-08 | CHASSIS ASSY | | |
| 205 | 1A | | J19-5899-08 | HOLDER | | |
| 206 | 2A | | D10-3789-08 | SLIDER ASSY | | |
| 207 | 3B | | D10-3790-08 | ARM | | |
| 208 | 1A | | D10-3791-08 | ARM | | |
| 209 | 2A | | D10-3853-08 | ARM ASSY | | |
| 210 | 1A | | D10-3793-08 | SLIDER | | |
| 211 | 1A | | D10-3794-08 | ARM | | |
| 212 | 1A | | D10-3795-08 | SLIDER | | |
| 213 | 1A | | G01-4046-08 | SPRING | | |
| 214 | 3A | | G01-4047-08 | SPRING | | |
| 215 | 2A | | G01-3972-08 | SPRING | | |
| 216 | 1A | | G01-3974-08 | SPRING | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|
| 217 | 2A | | G01-4110-08 | SPRING | | |
| 218 | 1A | | G01-3976-08 | SPRING | | |
| 219 | 2A | | G02-1651-08 | FLAT SPRING | | |
| 220 | 2B | | G02-1652-08 | FLAT SPRING | | |
| 221 | 2A | | G01-3973-08 | SPRING | | |
| 222 | 2A | | D13-1859-08 | GEAR | | |
| 223 | 2A | | D13-1860-08 | GEAR | | |
| 224 | 3A | | D13-1861-08 | GEAR | | |
| 225 | 2A | | D13-1862-08 | GEAR | | |
| 226 | 2A | | D13-1863-08 | GEAR | | |
| 229 | 1A | | D13-1864-08 | GEAR | | |
| 230 | 1A | | D14-0394-08 | ROLLER | | |
| 231 | 2A | | D19-0312-08 | LEAD SCREW | | |
| 232 | 2A | | D21-1895-08 | SHAFT | | |
| 233 | 2A | | D10-3699-08 | ROD | | |
| 234 | 3A | | D10-3702-08 | ROD | | |
| 235 | 1B | | A01-3552-08 | METALLIC CABINET | | |
| 236 | 3B | | A01-3553-08 | METALLIC CABINET | | |
| 237 | 1B | | J02-1439-08 | INSULATOR | | |
| 238 | 2B | | J02-1440-08 | INSULATOR | | |
| 239 | 1B | | G11-2380-08 | CUSHION | | |
| 242 | 2B,1H | | E35-2309-08 | FLAT CABLE | | |
| 245 | 1A | | F19-1083-08 | SHEET | | |
| 246 | 2B | | F19-1084-08 | SHEET | | |
| BB | | | N09-3426-08 | SCREW M1.7X7.5 | | |
| BD | | | N09-3115-08 | SCREW M1.4X2.2 | | |
| BF | | | N09-3347-08 | SCREW M1.7X2.5 | | |
| BG | | | N09-3352-08 | SCREW M1.7X8.9 | | |
| BK | | | N09-3350-08 | SCREW M2.0X4.0 | | |
| BL | | | N09-3351-08 | SCREW M1.7X3.0 | | |
| DMMD | 3A | | T42-0904-08 | MOTOR ASSY M901 | | |
| FMMD | 3A | | T42-0905-08 | MOTOR ASSY M902 | | |
| LMMD | 3A | | T42-0906-08 | MOTOR ASSY M903 | | |
| PUMD | 2A | | T25-0080-08 | PICKUP | | |
| RHMD | 1A | | T30-0017-08 | RECORD HEAD | | |

## CASSETTE MECHANISM (D40-1601-05)

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|
| 301 | 1D | | A10-3157-08 | CHASSIS BASE | | |
| 305 | 1D | | D01-0119-08 | FLYWHEEL ASSY LEFT | | |
| 306 | 1E | | D01-0205-08 | FLYWHEEL ASSY RIGHT | | |
| 331 | 2D | | D19-0310-08 | CLUTCH ASSY | | |
| 369 | 2C | | N87-2004-46 | HEAD PCB SCREW | | |
| 370 | 2C | | N87-2006-46 | SCREW | | |
| 374 | 1E | | N19-0904-08 | WASHER | | |
| 375 | 1D,1E | | N19-0905-08 | WASHER | | |
| 378 | 2D | | N19-1214-08 | WASHER | | |
| 380 | 2D | | N29-0205-04 | E RING | | |
| 389 | 2E | | T94-0225-08 | SOLENOID SHAFT | | |
| 391 | 1E | | W02-2688-08 | ELECTRIC UNIT B | | |
| BM | 1E | | D16-0371-08 | MAIN BELT | | |
| BR | 2E | | D16-0372-08 | REEL BELT | | |
| MM | 1D | | T42-0933-08 | MAIN MOTOR ASSY | | |
| PF | 2D | | D14-0399-08 | PINCH ROLLER ASSY (FWD) | | |
| PR | 1C | | D14-0400-08 | PINCH ROLLER ASSY (RVS) | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|
| RPEH | 2C | | T39-0038-08 | REC/PLAYBACK/ERASE HEAD | | |

## CD-MECHANISM

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|
| ⚠ PU | | | T25-0061-08 | PICKUP (KSS-213C) | | |

## SPEAKER (LS-M31(M))

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|---|---|---|---|---|---|
| - | | ✻ | A05-0264-08 | SPEAKER SYSTEM SP381-04-0266A | MET | |
| - | | ✻ | A05-0267-08 | SPEAKER SYSTEM SP381-04-0266C | KP | |
| - | | ✻ | A21-3820-08 | FRONT PANEL 106-03310-072 | | |
| - | | | B05-0917-08 | GRILLE ASSY | | |
| - | | ✻ | T03-0506-08 | TWEETER 029-05006-412 | | |
| - | | ✻ | T10-1007-08 | WOOFER 029-10006-412 | | |

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# SPECIFICATIONS

## Main unit

### *[Amplifier section]*

| | |
|---|---|
| Effective output power during STEREO operation | |
| 1 kHz, 10 % T.H.D., at 6 Ω | 15 W + 15 W |
| Rated output power during STEREO operation | |
| Other countries | |
| 1 kHz, 0.7 % T.H.D., at 6 Ω | 12 W + 12 W |
| Frequency response | |
| AUX | 20 Hz~20 kHz (0 dB ~ -3dB) |

### *[Tuner section]*

**_FM tuner section_**

| | |
|---|---|
| Tuning frequency range | 87.5 MHz ~ 108 MHz |

**_MW (AM) tuner section_**

| | |
|---|---|
| Tuning frequency range | |
| 9 kHz step | 531 kHz ~ 1,602 kHz |
| 10 kHz step | 530 kHz ~ 1,610 kHz |

### *[MD recorder section]*

| | |
|---|---|
| Laser | Semiconductor laser |
| Recording method | Field modulation overwrite method |
| D/A Conversion | 1 Bit |
| Wow & flutter | Less than unmeasurable limit |

### *[CD player section]*

| | |
|---|---|
| Laser | Semiconductor laser |
| D/A Conversion | 1 Bit |
| Frequency response | 20 Hz~20 kHz |
| Wow and flutter | Less than unmeasurable limit |

### *[Cassette deck section]*

| | |
|---|---|
| Track | 4-track, 2-channel stereo |
| Recording system | AC bias system<br>(Frequency: 65 kHz) |
| Heads | |
| Playback / recording head | 1 |
| Erasing head | 1 |
| Motors | 1 |
| Wow and flutter | 0.2 % (W.R.M.S.) |
| Fast winding time | Approx. 100 seconds<br>(C-60 tape) |

### *[General]*

| | |
|---|---|
| Power consumption | 36 W |
| Dimensions | W : 180 mm<br>H : 257 mm<br>D : 275 mm |
| Weight (net) | 5.1 kg |

## Speakers

| | |
|---|---|
| Enclosure | Book shelf type, magnetically shielded |
| Speaker configuration | |
| Woofer | 100 mm, cone type |
| Tweeter | 50 mm, cone type |
| Impedance | 6 Ω |
| Maximum input level | 20 W |
| Dimensions | W : 150 mm<br>H : 255 mm<br>D : 240 mm |
| Weight (net) | 2.4 kg(1 piece) |

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Notes

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

# RXD-M31MD

**Note:**
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on General market(M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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